# **ENVIRONMENTAL ASSESSMENT** BOARD



## ONTARIO HYDRO DEMAND/SUPPLY PLAN **HEARINGS**

VOLUME:

160

DATE: Wednesday, June 10, 1992

BEFORE:

HON. MR. JUSTICE E. SAUNDERS

Chairman

DR. G. CONNELL

Member

MS. G. PATTERSON

Member



2300 Yonge St., Suite 709 Toronto, Canada M4P 1E4



## ENVIRONMENTAL ASSESSMENT BOARD ONTARIO HYDRO DEMAND/SUPPLY PLAN HEARING

IN THE MATTER OF the <u>Environmental Assessment Act</u>, R.S.O. 1980, c. 140, as amended, and Regulations thereunder:

AND IN THE MATTER OF an undertaking by Ontario Hydro consisting of a program in respect of activities associated with meeting future electricity requirements in Ontario.

Held on the 5th Floor, 2200 Yonge Street, Toronto, Ontario, Wednesday, the 10th day of June, 1992, commencing at 10:00 a.m.

### VOLUME 160

#### BEFORE:

THE HON. MR. JUSTICE E. SAUNDERS

Chairman

DR. G. CONNELL

Member

MS. G. PATTERSON

Member

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s.	THOMPSON		ONTARIO FEDERATION OF AGRICULTURE
в.	BODNER		CONSUMERS GAS
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1	opon commencing at 10:00 a.m.
2	THE REGISTRAR: Please come to order.
3	This hearing is now in session. Please be seated.
4	MS. MARLATT: Good morning.
5	I have a final set of questions for Mr.
6	Snelson.
7	AMIR SHALABY,
8	JOHN KENNETH SNELSON,  JANE BERNICE TENNYSON,
9	FREDERICK GEORGE LONG, BRIAN PAUL WILLIAM DALZIEL,
10	HELEN ANNE HOWES; Resumed.
L1	CROSS-EXAMINATION BY MS. MARLATT (Cont'd):
L2	Q. Mr. Snelson, I would ask that you
L3	look with me to page 36, of our Exhibit 710. And so
L4	far during cross-examination there have been quite a
L5	few questions around the nuclear moratorium in November
16	of 1990, and what I would like to do is just look
L7	precisely at the wording of this letter. This is a
L8	letter dated November 16th, 1990 to Mr. Franklin who
L9	was at that time President and Chief Executive Officer
20	of Ontario Hydro, and it was from Marc Eliesen, Deputy
21	Minister, Ministry of Energy.
22	I would like you to look with me to the
23	fourth paragraph which starts: The government is
24	requesting Ontario Hydro to Looking down two
25	paragraphs:

the proposed new CANDU "A" station and redirect the \$67.1 million approved by the Board, plus the 172.4 million budgeted for 1992/93 for pre-engineering and site studies for this project to conservation programs.  Looking on to the next page, page 2 of that letter, the third paragraph states:  The government has also reconfirmed	ıg
the Board, plus the 172.4 million budgeted for 1992/93 for pre-engineerin and site studies for this project to conservation programs.  Looking on to the next page, page 2 of that letter, the third paragraph states:	ıg
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and site studies for this project to  conservation programs.  Looking on to the next page, page 2 of  that letter, the third paragraph states:	ıg
7 conservation programs.  8 Looking on to the next page, page 2 of  9 that letter, the third paragraph states:	
Looking on to the next page, page 2 of that letter, the third paragraph states:	
9 that letter, the third paragraph states:	
The government has also reconfirmed	
11 that the Environmental Assessment Board	l
12 review of Ontario Hydro's Demand/Supply	,
Plans is an appropriate means for	
14 receiving public input into Hydro's pla	ıns
to meet future electricity needs and for	r
assessing the costs and environmental	
impacts of all major future supply and	
18 demand options.	
Mr. Snelson, I read this as, and could	
you let me know if this is your opinion too, as halt	.ng
the site-specific studies for nuclear? That was what	:
the purpose of this letter was in that specific area	•
23 would you agree with me?	
MR. SNELSON: A. It certainly had that	:
25 effect, yes.	

1	Q. But there is nothing in this letter
2	that constrained Ontario Hydro from seeking a nuclear
3	approval on a planning level?
4	A. I believe that is the case.
5	Q. Thank you.
6	THE CHAIRMAN: I believe that letter
7	already may have been an exhibit earlier. I don't know
8	whether it is or not, but if it isn't perhaps it should
9	be marked as an exhibit.
10	MS. MARLATT: I'm sorry, Mr. Chairman, I
11	should have explained. It was attached to page 35 of
12	Exhibit 710, and that is Interrogatory No. 9.2.115, and
13	that was entered as Exhibit No. 520.34, I believe
14	that's correct.
15	THE CHAIRMAN: That is fine. Thanks very
16	much.
17	MS. MARLATT: Q. Looking at page 43,
18	this is during cross-examination by Mr. Rodger
19	concerning the effect of the moratorium. At line 18 we
20	see the characterization:
21	"then there is a change in
22	government, whose philosophy is
23	anti-nuclear and a moratorium on nuclear
24	is imposed, and a few months later Hydro
25	comes out with a plan that has no nuclear

1	in it, and that is a happy coincidence,
2	is it?"
3	Mr. Snelson, I would first like to ask
4	you, a few months later, in fact the letter you
5	received was dated November 1990 and the Update was
6	January 1992; correct?
7	MR. SNELSON: A. Yes.
8	Q. So it was in fact a year and some
9	months before Ontario Hydro determined that it would
10	finally pull a nuclear approval from this hearing;
11	correct?
12	A. Yes.
13	Q. I have some questions for Mr.
14	Dalziel.
15	Off the record.
16	MS. MARLATT: Q. Mr. Dalziel, concerning
17	distributive versus integrated systems, in analyzing
18	the costs and benefits of both types of systems, did
19	you ever consider planning around a system approach
20	that would use the benefits of both types of systems?
21	MR. DALZIEL: A. Benefits of both types,
22	you mentioned the distributed system.
23	Q. An the integrated system approach.
24	A. I think to the extent that we are
25	viewing non-utility generation as a distributed source

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of generation, I said this in my direct, that we think 1 that we are taking one of the better features of that 2 3 distributed generation approach and incorporating it 4 into our Demand/Supply Plans. 5 So you would agree with me then it's 6 not an either or situation, you don't have to choose 7 one type of system or another, you could find a happy compromise between the benefits of both types of 8 9 systems? 10 Α. To an extent. I think it's a matter of degree as to whether you are predominantly more of a 11 central generating type of system, strongly 12 13 interconnected, then it's a matter of degree to which 14 you have been able to pick up the benefits of distributed resources on top of that. 15 16 Q. Looking at page 48, and this is from Volume 149, page 26301, I had a question about your 17 answer to one of the questions. At line 9, and I 18 19 believe that this was a discussion about distributive 20 systems, you stated: 21 "...a large number of sites across the province will be required, about as many 22 as 50 sites, and about half of these 23 24 would have to be required, would have to be sited in the Greater Metropolitan 25

Toront	0 21	rea."

2	Now, am I correct in characterizing thi
3	as a concern you had about the distributive system
4	approach?

A. In general, that's right.

Q. I guess my question then is, in reading this as a concern that could result from using that type of system in its entirety, it would appear to me at least that the sites that you are talking about which would be half of the required sites for future planning, would have to be in Metropolitan Toronto.

Would it not be then interpreted that half of the future load is coming from Metropolitan Toronto and that's why you would have to have those sites there?

A. Typically in that distributed generation approach, that is it exactly what you are trying to do, is you are trying to match the location of generating stations with the major load centres. So essentially that's correct, that a lot of the load would be being supplied by the local generation.

Some of that also might be making up for retirement of generation which is also already existing in the Greater Metropolitan Toronto area.

Q. So half of the future sites under this planning method would have to be in Toronto, or

1	the Metropolitan Toronto area?
2	A. In the Greater Metropolitan Toronto
3	area under this type of approach.
4	Q. And the final question for Mr.
5	Snelson. Mr. Snelson, do you recognize that Aboriginal
6	issues not limited to social and economic impacts?
7	They are in fact a part of the entire planning process?
8	MR. SNELSON: A. Can you repeat the
9	question?
LO	Q. Do you recognize that Aboriginal
11	issues are not limited to social and economic impacts
L2	of the plan, but that in fact they can affect the
L3	entire planning process, the way in which you plan?
L4	[10:13 a.m.]
L5	A. I think that there are a number of
L6	groups in society including Aboriginal groups who have
L7	interest and concerns with the entirety of our
L8	planning.
19	Q. For example, areas such as judgment
20	and weighing of criteria, those are areas in which
21	different groups may perceive the process differently
22	from Ontario Hydro.
23	A. Yes.
24	Q. And their input, therefore, is
25	important to Ontario Hydro in making those final

1	determinations.
2	A. Yes.
3	Q. All right. Dr. Tennyson, I would
4	like to ask you to look to page 74. And this is
5	Interrogatory 11.40.14.
6	THE REGISTRAR: That will be .34.
7	EXHIBIT NO. 683.34: Interrogatory No. 11.40.14.
8	MS. MARLATT: Q. And this is a question
9	from the Aboriginal Research Coalition asking for:
10	"copies of all reports and studies
11	done for or by Ontario Hydro or
12	considered by Ontario Hydro with regard
13	to the cumulative impacts of past Ontario
14	Hydro and related activities and
15	non-Ontario Hydro projects on Aboriginal
16	harvesting, activities of hunting,
17	fishing, trapping and gathering.
18	And the response is:
19	"No such studies have been done
20	regarding cumulative impacts of past
21	Ontario Hydro activities."
22	Would you confirm that this is still the case?
23	DR. TENNYSON: A. I would confirm that
24	no such studies have been done. But depending on, as
25	you are well aware, we are working on, in terms of the

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Basin that there has been an agreement to work on

cumulative effects. In terms of our other project

work, part of what we are addressing is the impacts of

past activities on the communities and looking to

redress them in various ways. So there are no studies,

in answer your question. The interrogatory response is

correct.

- Q. Even in the way that you are looking at them, would it be correct to say that those are with regards to specific projects, that there have not been studies or reports done on a broad planning level for Ontario as to what have been the cumulative impacts of all of Ontario Hydro's activities which have impacted on Aboriginal peoples?
  - A. As I said, we have not done cumulative effects. But certainly we are looking at the broad range of Hydro activities in terms of we are not just dealing with specific projects. Obviously, in an area there have been a number of perhaps past projects that have had some effect, and we are looking at that.
- Q. I would like to ask you to look at
  Exhibit 535, and that is the final report: Public
  Government Review and Input into Ontario Hydro's
  Demand/Supply Planning Process. Looking at page 20, it

1	is my review of this report that page 20, 21, and 22
2	describe the process by which you got feedback from
3	communities; is that correct, Dr. Tennyson?
4	A. That's correct.
5	Q. So looking at the heading 4.2,
6	Information Centres, the information based information
7	centre activities were conducted over the period from
8	January 8th to March 30th, 1990.
9	Dr. Tennyson, are you aware whether or
10	not any of these information centres were held on
11	reserves?
12	A. As I understand it, the one that was
13	referred to in terms of DSP and Aboriginal communities,
14	4.7, it makes reference to the information centre in
15	Moose Factory and Moosonee.
16	Q. Are you aware of any others?
17	A. No.
18	Q. Are you aware of whether or not
19	Ontario Hydro requested any of the First Nations to
20	consider hosting one of these information sites on a
21	reserve?
22	A. I don't know the answer to that. I
23	do know, though, that there were many measures taken to
24	involve Aboriginal people in terms of we did a letter
25	contact and then there were subsequent phone calls

1	trying to encourage as much participation as we could.
2	Q. I'm actually looking just at
3	geographical locations right now in terms of where the
4	information centers were held. Part of the process
5	described here states that, to be fair to you, that
6	centres were held in Northern Ontario to ensure that
7	Aboriginal participation was a possibility.
8	What I am looking at is even more
9	specific than that, whether or not Ontario Hydro sought
10	to have any of these centres held on or adjacent to a
11	reserve.
12	A. I think as was stated I think that
13	locations were chosen to try and encourage
14	participation in all areas. And it would have been
15	specifically to get both Aboriginal and non-Aboriginal
16	people to attend.
17	Q. So the vast majority, if not all of
18	the information centres, were held, then, in non-Native
19	communities.
20	A. To a large extent. But as you are
21	fully aware, there are a lot of Aboriginal people that
22	live off reserve in many of these communities, as well.
23	Q. Looking at 4.6, Public Communication
24	Initiatives, and this may be what you have just

25

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referred to, that these activities involved inviting

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1 and tracking the subject matter of telephone calls to two 800 services and mail-back coupons from newspaper 2 advertisements. 3 Actually, no, that was a separate 4 5 activity. 6 Q. Separate? 7 A. What I am stating is that invitations were sent out on a broad, broad basis to try and get 8 the maximum participation in attendance at these 9 centres. And as well, as I understand it, there were 10 11 in addition in areas follow-up telephone calls to try 12 and ensure additional awareness of the centre in that 13 location. Clearly, there were newspaper ads, there 14 were written invitations, there were also some calls 15 made. 16 That part of the program which 17 involved telephone calls and the bottom of page 21, I 18 think there is short description there of the process 19 you have just described, 4.7, second sentence: 20 During these information centres and 21 several others, efforts were made to 22 contact members of Aboriginal communities 23 and representatives of organizations by 24

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telephone.

Is that what you are referring to?

25

1	A. That's correct.
2	MR. B. CAMPBELL: I think in fairness
3	that section also continues on to page 25.
4	MS. MARLATT: Yes, it does. I am just
5	trying to see whether or not that is the section you
6	are referring to, the process.
7	That is the general process.
8	DR. TENNYSON: A. I think we were going
9	to go on to that.
10	Q. I would be happy to continue that
11	sentence, though:
12	Efforts were made to contact members
13	of Aboriginal communities and
14	representatives of organizations by
15	telephone to reiterate the written
16	invitations that have been sent prior to
17	the centres.
18	And then does go on to page 25, which describes the DSP
19	information centre at Moose Factory.
20	Could you tell me, Dr. Tennyson, with
21	regards to the actual telephone calls to follow up and
22	to ask people to attend the centres, do you know
23	whether or not when the telephone calls were made the
24	individuals from Ontario Hydro making those calls told
25	the potential participants that this feedback program

could be used to determine public acceptability of 1 2 certain options, that that was the purpose of the 3 feedback program? 4 I wouldn't know the exact words that were exchanged. But I can only assume that the reasons 5 6 for the particular centres which were to inform people 7 to get the feedback, to have input into this, would be something that would be mentioned in an invitation in 8 9 trying to, as I say, encourage participation. 10 Q. Would you agree with me, Dr. 11 Tennyson, that it may be slightly different if they were requested to come and give their input on the 12 13 Demand/Supply Plan compared to a request to come and 14 talk to Ontario Hydro about what they think about nuclear plants, that that may get a different response, 15 16 particularly from Native intervenors who may be concerned about nuclear issues? 17 18 A. Once again, I can only speculate. 19 But if I were involved in that conversation, I would 20 have mentioned all of those things to try and encourage 21 participation 22 But you did not do the telephone 23 calls yourself? 24 Α. No. 25 Q. Now, the process that is reviewed in

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that chapter 4 on pages 20, 21, and 25, the process 1 there appears to be very similar for Native and 2 non-Native involvement as part of the feedback program. 3 Now, would I be correct in saying that 4 5 efforts were made to encourage Aboriginal attendance at 6 information centres but that there was not a difference in how they were treated once they attended the 7 information centre? 8 9 [10:25 a.m.] 10 A. In terms of attending the information 11 centre, once again there would not have been any 12 difference in treatment. All people attending were 13 presented with the same - to my knowledge, the ones that I attended anyway - the same program. 14 We certainly took everyone around, 15 16 explained all the panels, had the various experts, as I 17 explained yesterday, that there were people from sort of the technical area as well as the regions, as well 18 as corporate relations, our group. And then a lot of 19 20 dialogue was encouraged, as well would they fill out the questionnaire to try and get the results. 21 So the actual feedback part of the 22 program was the same for Native and non-Native; 23 24 correct? That would be correct. However, if 25 Α.

1	go on to read these materials you will recognize that
2	in terms of our discussions with First Nations and
3	Aboriginal representatives, the need was recognized to
4	translate materials, and that was done. As well, as
5	soon as the Demand/Supply Plan was submitted and at the
6	same time as these activities were going on in the
7	local areas, Ontario Hydro met with the Chiefs of
8	Ontario and that's in fact where one treaty group
9	indicated its interest in having more meetings on the
10	Manitoba Purchase and its associated transmission, and
11	that was followed up with. As it says here as well,
12	your clients were met with in that spring as well.
13	So I think there were efforts going on at
14	the same time to encourage additional feedback in
15	whatever ways were appropriate.
16	Q. Dr. Tennyson, with reference to that
17	meeting in the spring of that year with the North Shore
18	Tribal Council, would you agree with me that that
19	meeting was not held to discuss general views of the
20	Demand/Supply Plan; it was in fact held to discuss
21	potential participation by the North Shore Tribal
22	Council in site-specific studies for nuclear?
23	A. I was not in attendance at meeting
24	and I could not answer that.
25	Q. Looking at page 82 of the materials,

1	this is Interrogatory No. 10.4.45.
2	THE CHAIRMAN: Number please?
3	THE REGISTRAR: .35.
4	<u>EXHIBIT NO. 683.35</u> : Interrogatory No. 10.4.45.
5	MS. MARLATT: Q. I would just like to
6	confirm with you, Dr. Tennyson, the last sentence of
7	the response, that it is not possible to break this
8	data down between Natives and non-Natives. So there
9	was no breakdown of feedback information received from
10	Native versus non-Native participants?
11	DR. TENNYSON: A. That's correct.
12	Q. I would like to move into an area of
13	questions about economics.
14	After the previous discussions yesterday
15	and the day before, is it fair to say that no one on
16	this panel is testifying as an expert in economics?
17	MR. SNELSON: A. Yes, that is fair.
18	Q. Thank you. And I would assume then
19	that no one is testifying as an expert in Aboriginal
20	economies.
21	DR. TENNYSON: A. That's correct.
22	Q. Dr. Tennyson, would I be correct in
23	stating that Ontario Hydro has not put forth any
24	reports or documentations for the DSP on issues around
25	Aboriginal economies such as of the difference between

1	the operation of the wage in traditional economies?
2	A. That's correct.
3	Q. There has been some discussion, and I
4	will turn these questions to you, Dr. Tennyson, there
5	has been some discussion about the economic impacts on
6	a provincial basis for certain options such as nuclear,
7	and I would like to ask you whether or not you would
8	agree with me that the provincial analysis for certain
9	options, the economic analysis, may be quite different
. 0	from impacts on a regional or local level?
.1	A. Yes, I would agree.
.2	Q. So you would agree that there may be
.3	a difference in economic impacts from locating say a
. 4	nuclear plant which would require 7,000 construction
.5	workers at its peak time, beside a centre such as
.6	Pickering with 66,000 people, compared to a centre such
17	as Mississagi First Nation with 400 people?
18	A. I would agree that the impacts would
19	be different.
20	Q. That's all I am asking at this point.
21	Would you agree with me, Dr. Tennyson,
22	that in a smaller, much smaller community, and let's
23	work with the population of Mississagi First Nation
24	which is approximately 550 members, that there would be

less available labour and that there may be a much

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higher influx of workers in order to meet that have 1 2 7,000 construction jobs? 3 A. Well, clearly, the labour force in 4 the area that you would been looking at would not just 5 be from that small community, I mean, there would be a 6 regional draw. But I would agree with you that there 7 would potentially be a lot more in-migration in an area like that then there would be in some developed areas 8 9 of Southern Ontario. 10 Q. And would you agree that the 11 community located closest to a nuclear plant tends to be the one with most impact, particularly if we are 12 13 talking --14 I guess it depends what type of 15 impact you are talking about. 16 O. Let's discuss that then. Just so I 17 understand Ontario Hydro's position, it's your position 18 that it is preferable to use local labour on construction and operation of your projects; is that 19 20 correct? We are trying to encourage that. 21 Α. 22 position being that the people in the area should share 23 in the benefits of any project. And in terms of our 24 work in sort of Northern Ontario, the Throne Speech directed as well that benefits should accrue to 25

1 northerners and Aboriginal people from our activities, and we are in total agreement with that. 2 So two of the reasons for preference 3 for local labour that I have heard from you is the one 4 5 that you have just stated, which is economic benefit accruing to the community most affected, the second is 6 to minimize community disruption? 7 8 Α. Yes, and other community impacts, 9 yes. 10 Q. Looking at page 94, this is 11 Interrogatory No. 9.23.7. 12 THE REGISTRAR: .36. 13 --- EXHIBIT NO. 683.36: Interrogatory No. 9.23.7. MS. MARLATT: Q. This is an 14 15 interrogatory which asks which project areas would require the most in-migration of construction workers 16 17 for each type of facility, nuclear and fossil and IGCC. 18 We see here in the response to this 19 interrogatory that migration levels for these types of 20 facilities are the highest in the North Channel area 21 compared to any of the other illustrative siting areas. 22 Do you see that, Dr. Tennyson? 23 DR. TENNYSON: A. I see it. 24 Q. Would you agree with that? 25 Seeing it in your package was the Α.

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- 1 first time that I saw it, and having looked at it, I 2 can see that those assumption make sense. I don't know that I would agree with all of the ordering, but I 3 4 think that the notion is that in an area that is less 5 populated and has a smaller work-force would for 6 certain types of facilities, obviously you can 7 hypothesize anyway that you can get more in-migration. 8 Q. Does this factor that you look at with community-based labour as much as possible, does 9 10 it ever act as a constraint on Ontario Hydro developments, for example, that you wouldn't consider 11 12 locating a project somewhere where there was not 13 adequate local labour? I can't say that that has ever 14 Α. 15 occurred. 16 I think the thrust is more to make sure 17 that as much of the -- as I say, any economic benefits 18
  - that as much of the -- as I say, any economic benefits in terms of employment and spending accrue to the local and regional area. And to that end, in terms of when I talk about impact management, I think I will argue that measures have to be taken to ensure that benefits are enhanced or that they do occur. So as the same way that you mitigate to offset negative, you have to take measures to ensure that these types of positive impacts do occur.

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1 So that we are in fact making major efforts now to do that, just that. We have committees 2 in Hydro looking at our purchasing policies, we have 3 committees looking at employment and training. And one 4 5 of the issues that comes up obviously in terms of some of the smaller centres is the size of our contracts, 6 and so we are looking at what would can do about the 7 size of contracts to ensure much more local and 8 regional benefits. 9 10 Q. Dr. Tennyson, would you agree with me that just looking at this one factor, in-migration of 11 12 workers, it is possible that there is nothing Ontario 13 Hydro could do in certain areas in Ontario to ensure 14 that there are more positive benefits than negative 15 impacts as a result of in-migration of workers, just that one criteria? 16 17 I don't know, hypothetically I guess. 18 I use that. In-migration is a good predictor because 19 certainly that can be a major impact. But depending on 20 the community, some communities want to go grow. 21 mean, you can't look at something and say it is 22 necessarily a negative. 23 What I am asking you to do is the 24 opposite, Dr. Tennyson. Can you look at that and tell

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me it's not necessary positive, it depends largely --

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1	A. In some areas.
2	Q. It depends largely upon what the
3	community thinks?
4	A. Certainly some communities would not
5	welcome it and would be very concerned about the
6	influx.
7	Q. Would you agree with me then, Dr.
8	Tennyson, if we are looking at the hypothetical where
9	we have a very small population base, large influx of
10	workers, that the potential boom and bust effect in
11	that community could be devastating on a smaller
12	community that has a less diversified economy?
13	A. Boom and bust is something that
14	clearly all of the social impact literature is pretty
15	well based on and certainly looks at.
16	Ontario Hydro has for almost 20 years now
17	in its activities tried to and has been, and as I
18	suggested yesterday, very successful in managing that
19	kind of situation.
20	We certainly look at the effects of our
21	activities in terms of what would be any of those types
22	of effects and how would they be managed. And that's
23	been a fundamental philosophical approach.
24	So in terms of Ontario Hydro, I would say
25	they would not do something in your hypothetical

situation. 1

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we do address.

Q. All right. Would you agree with me,
Dr. Tennyson, that again just talking about
in-migration of workers, that there may be a difference
in locating a large plant that requires in-migration of
workers beside a heterogeneous population such as say
Pickering where there is a wide of variety of different
people with different skills and different backgrounds,
compared to a homogeneous population such as the
Mississagi Fist Nation, their shared common values,
shared culture, shared languages, that they may have a
different type of impact on those times of communities?
A. I would certainly address that.
Q. Would you agree that there is such a
thing as a sensitive population, i.e., a population
that is particularly sensitive to change?
A. That is why one of our criteria has
always been special sensitive groups. Clearly in the
literature and in our work, it could be, for example,
in a particular area that the elderly are particularly

Q. And it may be difficult if you bring

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sensitive to change, or it could be, you know, people

that have been an area for generations as well. That's

the kind of things we have to look at and be sure that

1 in large amounts of labour from outside that community 2 in such a case? 3 I think we have all seen that, 4 certainly that area has too with the historic 5 developments. 6 Q. And a community such as Mississagi 7 First Nation may also have its own economic plans for 8 the future; correct? 9 Α. Clearly. 10 Further, within a First Nation community there is also the concern about both a wage 11 12 and the tradition economy and how they operate and how 13 they could be impacted on--14 Α. Yes. 15 --by development? Q. Are you familiar with the term "economic 16 development officer"? 17 18 A. Yes. 19 Have you met specifically -- and just for the Board's interests, economic development 20 21 officers are located, at least on the North Shore 22 Tribal Council within each First Nation. 23 And what I was wondering, Dr. Tennyson, 24 is whether or not you have met with an economic 25 development officer or group of economic development

- officers specifically to discuss economic impacts on
- 2 First Nations as part of the plan? Got that in there.
- 3 [10:37 a.m.]
- A. I did not personally as part of the
- 5 plan. But you know that in the work we did leading up
- 6 to that in which a lot of our understanding is based on
- 7 was, for example, the Little Jackfish project, and that
- 8 was certainly done. It's been done, I had certainly
- 9 method with EDOs in the past on other projects before.
- 10 So that kind of knowledge or awareness was available to
- 11 us and part of what we knew at that time. Since then I
- 12 have met with many, many.
- Q. Have you discussed with them the
- impacts of something like Ontario Hydro's planning
- processes and how they interrelate with the individual
- 16 First Nations economic development initiatives for the
- 17 future?
- A. Are you talking historically or now?
- 19 Q. Actually, I'm talking in developing
- 20 the Demand/Supply Plan.
- 21 A. Specifically, I would not know, and I
- 22 certainly did not have those types of discussions.
- Q. I would ask you to look at page 87,
- 24 Interrogatory 10.7.20.
- THE REGISTRAR: .37

1	EXHIBIT NO. 683.37: Interrogatory No. 10.7.20.
2	MS. MARLATT: Q. And the response to
3	this interrogatory which deals with the issue of demand
4	management programs and regional development, the
5	second paragraph states, the second sentence states:
6	However, such programsmeaning the
7	delivery of demand management programs
8	can provide regional economic benefits.
9	A pilot project to encourage energy
.0	efficiency in Espanola, Ontario will
.1	involve the hiring of contractors from
.2	the region and a significant amount of
.3	local and regional purchases and
. 4	expenditures.
.5	Would you agree with me, Dr. Tennyson, that it's
.6	possible that this type of project may be more
.7	compatible with a community such as Espanola's desire
.8	for regional development compared to a mega project?
.9	DR. TENNYSON: A. More compatible? I
20	couldn't say that in terms of Espanola and the area,
21	other parts of the area along the North Shore or in
22	Elliot Lake. I'm not convinced that that is true, what
23	you are saying.
24	Q. Have you done studies on that issue?
25	A. Which issue?

1	Q. The issue of the types of impacts on
2	a local community such as on the North Shore area from
3	Elliot Lake to Espanola and how demand management
4	programs may have economic impacts compared to large
5	scale developments.
6	A. No, as it suggests in the response to
7	this interrogatory, this is a pilot project. And
8	certainly as part of its evaluation that is being done,
9	that is one of the things that will be looked at.
LO	Obviously, we would want to know how much spending and
11	purchasing, et cetera, is going to the local community
12	as opposed to, say, Sudbury. And the same thing for
13	any of the work, where the worker is coming from and
L <b>4</b>	that kind of thing.
15	Q. From that pilot project, will there
16	be a follow-up report that will be available to us to
17	tell us about the economic development of that program?
18	A. I know there is going to be a report.
19	Q. Will it address issues such as the
20	local impact on the Espanola economy, do you know?
21	A. It better.
22	Q. Thank you. In terms of sustainable
23	development, would you agree with me that in
24	determining whether or not economic development in a
25	region is sustainable economic development, that you

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1	have to consider the size, the nature, and the
2	diversity of a regional or local economy?
3	A. I would agree to that.
4	Q. Thank you.
5	Ms. Howes, I have some questions for you.
6	Looking at page 97. I would just like you to confirm
.7	that this interrogatory response is correct. This is
8	Interrogatory No. 10.32.18.
9	THE REGISTRAR: .38.
10	EXHIBIT NO. 683.38: Interrogatory No. 10.32.18.
11	MS. MARLATT: Q. And the question is
12	regarding:
13	"A quantitative description,
14	evaluation, and assessment of the present
15	and future environmental/health effects
16	of Ontario Hydro's emissions to the
17	atmosphere or water, and those of its
18	solid wastes, including the contribution
19	by other sources. This should include an
20	evaluation of existing impacts to provide
21	an initial benchmark against which the
22	incremental effects can be measured."
23	Now, the response, looking at the last
24	sentence of the response;
25	"Hydro does not have studies that

1	provide an initial benchmark against
2	which incremental effects can be
3	measured."
4	Is that accurate?
5	MS. HOWES: A. That is correct. I would
6	also add, though, part of any siting study would have
7	to develop some background environmental baseline data,
8	and that is a critical starting point for all of our
9	environmental assessment studies.
10	Q. Looking at the next page, which is
11	Interrogatory 10.32.19.
12	THE REGISTRAR: That is .29.
13	EXHIBIT NO. 683.29: Interrogatory No. 10.32.19.
14	MS. MARLATT: Q. Similar types of data
15	is requested by the Ministry of Environment with
16	regards to emissions and waste disposal from the
17	present generating system and other sources.
18	And the second last sentence asks for:
19	"This includes emissions and disposal
20	of wastes to the atmosphere, surface, and
21	ground waters and land. This evaluation
22	will provide an initial benchmark against
23	which the incremental future effects of
24	increased emissions and wastes from
25	Ontario Hydro and other sources can be

1	measured."
2	And we referred back to the interrogatory
3	we just discussed, which again says Hydro does not have
4	such studies.
5	A. No, but the Ministry of Environment
6	is fully aware of the emissions, effluents, and wastes
7	from all of our existing stations.
8	Q. They asked for studies which would
9	provide them with such information, together with other
10	sources. That is what this question is.
11	A. That is correct.
12	Q. Looking at page 101, this is
13	Interrogatory 11.26.28.
14	THE REGISTRAR: That is .40
15	<u>EXHIBIT NO. 683.40</u> : Interrogatory No. 11.26.28.
16	MS. MARLATT: Q. And the response to
17	this interrogatory:
18	"Ontario Hydro has not identified
19	generic thresholds to acceptable
20	environmental effects."
21	Skipping down a sentence:
22	"Determination of acceptable and
23	unacceptable environmental effects will
24	be made through a process of public
25	government and stakeholder involvement at

1	each project Environmental Assessment
2	stage."
3	Ms. Howes, would you agree with me that
4	it would have been possible to have a debate about
5	certain acceptable and unacceptable effects,
6	environmental effects, of Ontario Hydro's planning
7	process?
8	MS. HOWES: A. The environmental effects
9	of our planning process?
10	Q. The results of the activities that
11	you foresee Ontario Hydro being involved with over the
12	next 25 years.
13	A. Well, I think this particular forum
14	that we are currently involved in does discuss in a
15	generic sense what the environmental effects will be.
16	I think, though, that in order to get an appropriate
17	handle on what carrying capacity or acceptable
18	threshold levels would be, it is very important to look
19	at the ecosystems affected. And I would suggest that
20	that is most appropriately done on a site-specific
21	stage where you, indeed, have a geographic basis for
22	consideration.
23	Q. Would you agree with me, Ms. Howes,
24	that information, and you may argue that it should be
25	done on a project level, but let's talk about at a

1 planning level. Would you agree that information that 2 individuals and groups could provide within regions about overall incremental impacts that they have 3 4 experienced would be useful to you? Yes, I think it would be useful. 5 A. Ι 6 would, as you suggested, argue that on a project-7 specific basis that would be most appropriate. And I 8 think that particular approach is what was intended as 9 part of the co-planning process for the Moose River 10 Basin, for example. 11 Q. And one of the examples we could put 12 forward, page 96, this is from Volume 152, page 26930. 13 It is a question there by Mr. Greenspoon. 14 "But if just hypothetically, if the 15 Serpent River basin has reached its carrying capacity or far exceeded it, 16 17 there is nothing Ontario Hydro can do 18 about it. ANSWER: That's probably true. 19 20 QUESTION: But it may be a burden on the people of the Province of Ontario. 21 ANSWER: It could well be." 22 23 Would you accept that that is an example of carrying capacity of a region of Ontario? 24 A. No. I would suggest that if there 25

1	were, indeed, developments proposed in that area that
2	one would certainly have to consider all of the
3	environmental implications of past developments. And
4	one may well determine that the Serpent River, for
5	example, has achieved a carrying capacity. But at this
6	point, this was a purely hypothetical statement. But
7	it would have to be considered in certainly
8	site-specific evaluations.
9	Q. Ms. Howes, looking at page 99,
10	Interrogatory response 10.4.28.
11	THE REGISTRAR: .41.
12	EXHIBIT NO. 683.41: Interrogatory No. 10.4.28.
13	MS. MARLATT: Q. I had just one question
14	about your response. Looking at the second page of the
15	response, under the Migratory Birds heading, about
16	halfway down the first paragraph, there is a sentence
17	there that states:
18	"the thermal discharges may provide
19	both improved micro-climate and increased
20	numbers of forage fish (for fisheating
21	water fowl). On Lake Erie and Lake
22	Huron, the thermal discharges also offer
23	local ice-free conditions during years
24	when the rest of the lake freezes over."
25	Ms. Howes, are you aware whether or not

1	there have been any impacts on the ability for people
2	to conduct ice fishing activities in those areas?
3	MS. HOWES: A. I am not familiar with
4	any ice fishing activities around our stations, per
5	say. I mean, obviously, there are ice fishing
6	activities on Lake Erie. I'm not sure about Lake
7	Huron. I would suggest, though, that because,
8	particularly in the Bruce area we do have community
9	groups that if, indeed, it was affecting ice fishing in
.0	the area, we probably would have heard about it and
.1	investigated it and done something about it. But it is
.2	generally around the outfall. This is quite localized.
.3	Q. Are you aware of ice fishing
. 4	activities in the North Channel area? Is that
.5	something you are familiar with?
.6	A. Personally familiar with?
.7	Q. Personally familiar with.
.8	A. No, but I would not be surprised
.9	because I grew up in Northern Ontario.
20	Q. You would not be surprised there
21	would be ice fishing activities in the North Channel.
22	A. That's right.
23	Q. Ms. Howes, are you aware of
24	negotiations that are occurring in Ontario between
25	First Nations and both levels of government with regard

1	to resource management agreements?
2	A. I have some knowledge, yes.
3	Q. You are aware that those negotiations
4	concern constraints; part of the negotiations concern
5	constraints that may occur on traditional lands, First
6	Nations.
7	A. Yes, I think that is specifically
8	with reference to wildlife strategies, for example.
9	Q. So these may act as planning or land
10	use constraints in the long-term.
11	A. They could well, yes.
12	Q. For the Province of Ontario.
13	A. Yes.
14	Q. And that is something that Ontario
15	Hydro will have to take into account?
16	A. Yes. And you had asked something
17	very similar yesterday, and at the time I had forgotten
18	that as part of our hydraulic plan, for example, in
19	determining sites that have economic potential, one
20	consideration was various land-use constraints in the
21	North. So that was considered as part of our
22	determination of hydraulic sites.
23	Q. With regards to other options, would
24	that be on a list of potential constraints that Ontario

1 A. Yes, I would agree that there are 2 constraints to locating virtually all of our generating 3 stations within the province. 4 Q. And it may be somewhat like the 5 situation you are faced with regulations where you are 6 not sure how stringent the regulations will be in the 7 future, you are not sure how stringent the constraints 8 may be on your planning activities for Northern 9 Ontario. I wouldn't use that as a parallel. 10 Α. 11 But I would agree that yes, one has to consider other 12 land uses. And yes, there may well be constraints to 13 locations, yes. 14 MS. MARLATT: Thank you. Those are all 15 my questions. 16 THE CHAIRMAN: Thank you, Ms. Marlatt. 17 Thank you. [10:50 a.m.] 18 19 THE CHAIRMAN: Who is next? 20 MR. ANSHAN: Mr. Chairman. My name is 21 Mark Anshan, I represent CAESCO at these hearings. 22 This is the first time that we have actually participated in cross-examination, so I thought I would 23 24 industry myself to the panel and to the Board. 25 THE CHAIRMAN: Your client is again?

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CAESCO, the Canadian 1 MR. ANSHAN: 2 Association of Energy Service Companies. I have a short cross-examination. I 3 don't expect to take more than 20 minutes. However, I 4 have not been able to be here for most of the 5 cross-examination, in fact all of the cross-examination 6 on Panel 10 because I have been across the street at HR 7 21, and so I hope the Board and panel will forgive me 8 9 if I ask a couple of questions that maybe somewhat 10 repetitious and because I have not been here and I have not had the benefit of looking at the transcripts 11 12 either, I have been tied up. And if I do cross the 13 line, I am sure that somebody will bring that to my 14 attention. 15 My questions will also concentrate mostly 16 on the demand management plan, but with particular 17 reference to energy performance contracting and the GEP program, so I am not sure which member of the panel 18 19 would be most appropriate to answer those, and I will 20 leave it to the panel to decide that. 21 CROSS-EXAMINATION BY MR. ANSHAN: 22 Q. If I could turn to Exhibit 452, page 23 8, which is the Update '92, and I would just like to 24 briefly revisit an area which was the subject of cross-examination by Mr. Rodger. 25

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1 In the first paragraph of course it 2 indicates that the demand management targets have been 3 changed as a result of the Update, so that now we are looking at 5,200 megawatts for the year 2000, and 9,860 4 5 megawatts for the year 2014. That still is the 6 projected targets for demand management. 7 The second paragraph, and this is an area that Mr. Rodger was asking about the other day, refers 8 9 to the uncertainty factors to which affect the success 10 of the demand management programs, and the last sentence indicates that the uncertainties can be 11 12 estimated only on a broad judgmental basis, and there 13 was some discussion with Mr. Rodger about that phrase. 14 I would just like to ask the panel what 15 assumptions or judgments were applied to arrive at the targets for each of the years 2000 and 2014? 16 MR. SHALABY: A. The considerations that 17 went into arriving at the targets that you just 18 19 mentioned are documented in various exhibits that were discussed in Panel 4. 267 and 268 are the exhibit 20 21 numbers that I remember -- 257 and 258. And much of 22 the testimony of Panel 4 concerned the estimation of 23 potential and the steps we have taken to go from 24 potential to actual realized potential that we can achieve at a certain time. 25

1	Q. And those, the factors indicated in
2	those two exhibits, they haven't changed significantly
3	since those exhibits were filed and cross-examination
4	took place on them; is that correct?
5	A. The minor change I mentioned is the
6	reduction now in our estimate of load shifting and
7	discount demand service. The planning numbers are
8	lower, but the targets remain at 5,200 by the year
9	2000.
10	Q. Thank you. Is it true that the
11	entire mix of demand management programs to reach these
12	declared targets have not yet been designed?
13	A. Not all of the mix has been designed,
14	you are correct.
15	Q. And that will be an ongoing process,
16	I take it, in the years to come
17	A. Yes.
18	Qas new technology comes on stream
19	and existing technology is reviewed and evaluated and
20	changes are made to the present programs, new programs
21	are developed in response to the experience with
22	existing demand management programs; would that be
23	correct?
24	A. That is correct.
25	Q. If that's true then, what was the

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1	process used by Ontario Hydro to actually determine the
2	targets for 200 and 2014? In other words, you are not
3	really sure what kind of demand programs you are going
4	to have eight years out, 10 years out, it's really, I
5	guess, not a very precise science, is it?
6	A. The process is unrelated to programs.
7	Programs is how, for example, you will reach the
8	hospitality sector and promote efficient lighting or
9	refrigeration, for example.
10	The potential estimation process is how
11	many hotels and motels are there and how much
12	refrigeration and lighting takes place in those
13	establishments. And it's that kind of activity that we
14	have taken into effect so far, is to estimate how many
15	square feet, how often do they operate, how much demand
16	is there, and the potential for reduction.
17	Now, the program is now how do you get to
18	them, how do you promote the efficiency, how do you
19	deliver the programs, that is the part that is evolving
20	and continues to be worked out.
21	Q. It must also then take into account
22	future economic growth within the province in terms of,
23	you mentioned square footage, well, there will be
24	continued buildings being built in the future

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Yes.

A.

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1	Q.	down the road?
2	Α.	Yes, all those factors are taken into
3	account.	
4	Q.	Are taken into account?
5	Α.	Yes.
6	Q.	You are familiar with energy
7	performance contra	acting?
8	Α.	Familiar with the concept but not the
9	details.	
10	Q.	Are you familiar with the GEP program
11	in Ontario Hydro?	
12	Α.	Again, the concept but not the
13	details.	
14	THE	CHAIRMAN: What was the program?
15	MR.	ANSHAN: Sorry, Mr. Chairman. The
16	Guaranteed Energy	Performance Program.
17	Q.	That's a demand management program of
18	Ontario Hydro jus	t initiated I guess about a year ago
19	and is up for rev	iew at end of 1992, I believe.
20	MR.	SHALABY: A. That doesn't surprise
21	me. That's about	right.
22	Q.	And it's a program, the purpose of
23	which is to help	kickstart, if you will, or increase of
24	the level of acti	vity in energy performance contracting
25	with regard to en	ergy management and to help that

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industry grow and develop and make what we anticipate 1 will be a considerable contribution to demand 2 3 management; is that correct? A. I think that's the impact on the 4 industry you are representing, but the objective from 5 6 Ontario Hydro's and our customer's point of view is to get demand management and to increase the efficiency of 7 certain parts of the commercial and industrial 8 9 establishment. 10 Q. Energy performance contracting is 11 based on the pay for poor performance principle; is that correct? 12 13 That the principle, yes. 14 As opposed to incentives which are 0. 15 given for other demand management programs which don't 16 necessarily have a guaranteed savings in your programs? That is the principle, yes. 17 Α. 18 Could you tell me what percentage of 19 the targets for each of the two target years we have 20 mentioned, the year 2000 and the year 2014 are 21 attributable to energy performance contracting? 22 I think we just finished saying that the details of how the targets will be delivered have 23 not been worked out. So actually, whether it will be 24

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delivered by standards or by incentives or by

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quaranteed energy performance contracts, all of that 1 will continue to evolve. I don't think these numbers 2 3 have been worked out. In order to work out those specifics, 4 will there be some level or form of consultation with 5 6 the various stakeholders or representatives of the 7 various industries attributed to each of these demand 8 management programs? 9 Α. Yes. 10 0. Do you have any plans in place for 11 that level of consultation and analysis? I think that's an ongoing matter. 12 We 13 discuss the importance of partnership in demand management, working with customers and working with 14 15 architects, engineers, energy service companies, 16 government legislators and regulators. So the concept 17 of partnership with many stakeholders is a central 18 theme in delivering demand management. 19 Q. Can we assume that the demand 20 management targets that we are talking about might 21 change in the future based on changing circumstances? 22 Α. They have changed in the past and 23 there is no reason to think they will not change in the 24 future.

Q. So would it be correct to say that

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1	these targets are subject to periodic review by the
2	corporation?
3	A. Yes.
4	Q. And what would be the process for
5	that periodic review?
6	A. We have an annual business planning
7	cycle, that probably would be the closest I can think
8	of, of the process of reviewing those targets.
9	Q. You may have already answered this,
10	and if you have, you certainly will tell me. It's a
11	fairly extensive question.
12	How will the demand management targets
13	that you have be kept relevant and how will the
14	stakeholders be kept fully advised about what Ontario
15	Hydro's expectations are or will be in the future, in
16	order that the stakeholders can assure that their
17	participation is accepted as a central element to the
18	successful attainment of those targets?
19	A. I think the expectations are
20	documented in communication with the stakeholders,
21	documents that describe Ontario Hydro's demand
22	management plans and many other corporate plans.
23	Workshops, seminars, regular meetings associated with
24	various stakeholders, industry related, whether it's
25	the construction industry conferences or publications,

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- those are vehicles for communication with stakeholders, and there are many, many of those.
- Q. You mentioned before that you don't know the detail of regarding the GEP program. Do you have understanding as to how that program evolved and came to fruition at Ontario Hydro?
- 7 A. Again, my understanding of the concept, it is something that is followed in other 8 9 jurisdictions, and companies have operated elsewhere in 10 the United States and have come to Ontario offering 11 their services. They will deal with a client, for 12 example, an operator of a shopping centre or an 13 operator of an office building. They will audit and 14 implement energy management improvements, and based on 15 the measured savings, Ontario Hydro would pay certain 16 amounts of -- 10 cents per kilowatthour is my 17 understanding, for the first year of savings, as an incentive to the energy management company working the 18 19 client. That is roughly the concept and how it came to 20 fruition.
  - Q. What I was trying to get at is, what level of consultation was taken with the industry in developing the GEP program, particularly as you have just mentioned one of the incentive rates, the other incentive rate, I believe, is 700 per kilowatt saved?

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2	Q. And I am just trying to get a sense
3	of how the industry was consulted or not consulted in
4	developing the program, the detail of the program and
5	the incentive levels. You don't have that information?
6	A. I don't have firsthand knowledge of
7	that.
8	Q. I am nearing the end. Is Ontario
9	Hydro planning or considering the establishment of an
10	energy service company as part of its demand management
11	program?
12	A. I don't have knowledge of that.
13	Q. Do any of the members of the panel
14	have knowledge of that?
15	Would it be possible to get an
16	undertaking as to determine whether or not there are
17	any plans in the corporation for the establishment or
18	consideration of such an ESCO?
19	MR. B. CAMPBELL: Well, Mr. Chairman, I
20	am not sure how it's very helpful to the Board. I know
21	my friend has been crossing the energy management panel
22	over at the Ontario Energy Board for a considerable
23	period earlier in that hearing which continues.
24	I think if that was an important manner,
25	he might better have raised it there. I don't see how

A. Yes.

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1	it's relevant to this hearing and I am reluctant to
2	take on undertakings that I don't see being of clear
3	benefit to this Board.
4	MR. ANSHAN: If I may respond, Mr.
5	Chairman. I seem to be getting bumped back and forth
6	between two different hearings.
7	One, I think the development of and ESCO
8	by Ontario Hydro could be quite relevant or impact
9	considerably on demand management targets.
1.0	THE CHAIRMAN: On a what, I'm sorry?
11	MR. ANSHAN: Development of an ESCO, an
12	energy service company by the Corporation could be a
13	relevant factor in determining whether or not Ontario
14	Hydro can meet its demand management targets. So I
	think it is quite relevant to the consideration this
16	Board, particularly with respect to Update 1992.
17	All I am trying to determine is as to
18	whether or not the Corporation has thought about the
19	development of such a corporation, or whether it will
20	give consideration to it. I would think that within
21	this Corporation their ought to be somebody who has
22	knowledge
23	THE CHAIRMAN: They probably can tell you
24	whether they thought about it. Whether they can tell
25	you whether they will give consideration to it is

1	another question.
2	MR. SHALABY: In the area of thinking
3	about it, I hazard to say we must have thought about.
4	There is a lot of people in energy management and
5	elsewhere that are thinking of all kinds of mechanisms
6	of implementing demand management. So I hazard to say
7	it must have been a thought that was contemplated.
8	But I don't know to what extent it's
9	going to be a proposal that Hydro will act on.
10	THE CHAIRMAN: Is it part your present
11	plans?
12	MR. SHALABY: Not to my knowledge, no.
13	And I think the theme of partnership with
14	private industry and with operators, our experience in
15	delivering management, I don't know what room there is
16	for Hydro to create an energy service company. I don't
17	know whether there is a void in the market that Hydro
18	can fill or what, I have no idea.
19	MR. ANSHAN: Q. That leads me actually
20	precisely to the point because if in fact there was
21	some indication of planning or not planning, I was
22	going to then ask the question, what factors would be
23	necessary to be in place in order for Ontario Hydro to
24	consider such a venture?

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MR. SHALABY: A. That is a detailed

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1 question that I can't help you with, I'm sorry.

Q. And again, would there be any
willingness on the part of the Corporation or counsel
for the Corporation to undertake to give us perhaps a
list of criteria or factors that Ontario Hydro would
consider as to whether or not it would establish an
ESCO.

think there was an enormous amount of evidence in cross-examination in Panel 4 on the kind of approaches that Hydro anticipated taking. Ms. Fraser I know spoke to all of these kind of matters. I don't know whether this specific question came up in all of it. You have heard from Mr. Shalaby and I think it echoes Ms.

Fraser's response on Panel 4, that Ontario Hydro - and Mr. Wilson's testimony on Panel 4 - that Hydro was looking for any good ideas and opportunities to pursue its demand management objectives.

MR. B. CAMPBELL: Well, Mr. Chairman, I

I am just reluctant to take on, as I say, undertakings which, I think given the evidence in Panel 4 and the detail that was gone into, that really can't, in my submission, be of great assistance to the Board in dealing with the questions it has to deal with it.

detail that the Board does not want to go into. We are

Site-specific questions are a level of

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1 way past that level of detail on this kind of question 2 and it's equivalent area. ---Off the record discussion. 3 4 THE CHAIRMAN: I sort of cut you off because I had a conference to my colleagues, but do you 5 want to respond to Mr. Campbell? 6 7 MR. ANSHAN: No, I was sort of interested 8 as to what the result of the conference was going to 9 [Laughter] be. 10 But I did want to make one point on that, if I may, Mr. Chairman, and that's the reason this 11 12 issue didn't really arise in Panel 4 is because the 13 targets were different than they are now for energy 14 management and now these targets --15 THE CHAIRMAN: No, I am sure that's not 16 quite correct. I think these targets were part of the 17 Panel 4 evidence and were one of the driving forces 18 that lead to the Update. These targets were part of 4. 19 I think I am right about that, am I, Mr. 20 Shalaby. 21 MR. SHALABY: You are. 22 MR. ANSHAN: O. Is not the 5,200 23 megawatt a new target figure for the year --MR. SHALABY: A. But it was presented by 24 25 Panel 4.

1	Panel 4 essentially broke the news and
2	presented that here first.
3	Q. The only point I was trying to make
4	is that I think some of the suggestions we are trying
5	to make in this cross-examination could assist the
6	Board in determining whether or not these targets could
7	be met in terms of this consideration, but I think I
8	have made the point and we will leave it for argument
9	later on.
10	You are familiar with the non-utility
11	generation, Mr. Shalaby?
12	A. Both myself and Mr. Snelson are, yes.
13	Q. And non-utility generation, as I
14	understand it, is defined by the Corporation to include
15	generation produced by a private organization or
16	company, which generation is also connected to the
17	Ontario Hydro grid; is that correct?
18	A. Essentially correct. It doesn't
19	necessarily have to be a private corporation.
20	Municipalities or public corporations can also be
21	non-utility generators.
22	Q. But the feature of its connection to
23	the grid is an essential feature of that definition;
24	is that correct?
25	A. There are definitions of grid

connected non-utility generation and non-grid 1 2 connected. We can go into categories. Some are grid 3 connected but for most purposes the non-utility generations are connected to the grid. 4 5 [11:12 a.m.] 6 O. So in other words, the definition as 7 used by the non-utility generation division would 8 include projects not connected to the grid. 9 A. It could include that. The ones that 10 come to mind would be projects in isolated communities, 11 for example, that may not be connected to the bulk 12 electricity system. Or as we heard in Panel 8, there 13 are some people who are building either farms or cottages that are totally independent and will generate 14 15 their own power and not be part of the grid. 16 Q. And, therefore, would be considered 17 NUGs for the purposes of Ontario Hydro's activities, or 18 not? 19 MR. SNELSON: A. I am not entirely clear 20 on the point. But I believe that Mr. Shalaby is 21 correct that a non-utility generator on a remote 22 community electricity system which Ontario Hydro operates is definitely considered a non-utility 23 24 generator. But I suspect that a person with a windmill on his cottage which is on an island in the middle of 25

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the lake and not connected to anything is probably not considered non-utility generator. But I'm not entirely clear on that point.

Q. Well, let me take it one step farther if I can. In retrofitting a building, an energy service company -- I'll give you a scenario. An energy service company comes along and retrofits a large commercial building, perhaps something like the building we are in today; and as part of that retrofit suggests that the building can generate its own electricity through using gas and supply its own energy needs. Would that be considered a NUG, according to your definition?

A. Very likely, yes. The typical classification that sort of application falls into is what we call load displacement non-utility generation. And that is where an electricity customer generates part of his own electricity requirement which reduces the amount that he buys from Ontario Hydro. Even though Ontario Hydro doesn't buy that electricity and sell it back to him, it is still considered non-utility generation and that is a load displacement non-utility generation category.

Q. What if they were able to generate enough electricity for all their requirements without

1 having to buy any energy from the Corporation; would that still be considered a NUG project? 2 Typically, in that type of situation 3 4 they still want to be connected to the grid for backup reasons and so on, and yes, they would be considered to 5 be non-utility generation. 6 The Corporation is continuing with 7 8 NUG projects under 5 megawatts, is that correct? 9 Yes. Α. Considering them under 5 megawatts? 10 0. And as part of the guaranteed energy performance 11 12 program, the GEP program, any part of the GEP program 13 that has a NUG component to it has to be applied 14 through the NUG division of Ontario Hydro, is that 15 correct? 16 MR. SHALABY: A. I don't know the 17 details of that, but I suspect you are correct. Q. I quess my question is why that 18 19 wouldn't be viewed as part of the demand management 20 activities of Ontario Hydro as opposed to the NUG activities when it is part of the GEP program? 21 22 A. I quess we indicated to Mr. Shepherd, 23 I believe, when he was mentioning the example of hospitals, putting chillers together with cogeneration. 24 The proposal you are mentioning has some 25

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1	characteristics that are energy-management related and
2	some characteristics that are non-utility generation
3	related. And it is really who administers the program
4	is something that could evolve one way or the other.
5	But right now cogeneration is a
6	non-utility generation responsibility and energy
7	savings is a demand management responsibility. Whether
8	that will change are whether that is a sensible thing
9	to do, I believe if it becomes an obstacle to the
10	implementation of comprehensive package, Hydro's intent
11	is to make it easier for service companies to do their
12 .	business.
13	Q. Would you agree that right now if,
14	ESCO, an energy service company, came forward with a
15	comprehensive application for a retrofit that had
16	energy management components and NUG components, the
17	application would get split off to both divisions for
18	consideration? Is that how it would work?
19	A. My belief is that is the case right
20	now. I am not 110 per cent sure on that one. But that
21	is my belief at this time.
22	Q. And, therefore, the incentive levels
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	or the kind of financing arrangements for each

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is that correct?

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A. If it is split and went two different routes, that would be the case.

Q. And that could have an effect on the overall cost of the retrofit or the project, given the different -- there might be variations or discrepancies between the financings and the support arrangements?

A. I don't know if it would have an affect on the cost of the project. It would just run people crazy trying to chase two different places in Hydro and chase two applications in two different streams. I think it would just be a bureaucratic inconvenience.

I expect that Hydro, if that becomes a prevalent demand management initiative, will do something to correct that and to make it customer oriented and more convenient for the proponents to deal with, if it is more convenient to deal with one entity to do so. Or that we do our work in two different divisions but the contact between the customer and Hydro could perhaps be consolidated in one place.

These are speculations on my part that I have seen evolve in Hydro, that when something that is hybrid, like this proposal, comes up, at times we start up dealing with it as a split proposal but then it becomes evident that we have to put it together

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Q. But I take it from what you've said
that it is certainly much easier for the customer, in
this case, the representative from ESCO or an ESCO to
deal with one unit or one party in Ontario Hydro rather
than two or possibly three parties.

A. Yes.

Q. So that will certainly be looked at
in the development of these programs.

A. That is my speculation and my expectation, yes.

MR. SNELSON: A. My understanding is that in the regional offices there are common people who can assist in dealing with having one contact with a customer or an energy service company for such a proposal and can then deal with that on a unified basis and have the necessary dealings with the energy savings people for the demand management component and the non-utility generation people for any non-utility generation component. But the real expertise on this type of issue is really on Panel 4.

MR. ANSHAN: Thank you very much, panel.

Thank you very much, Mr. Chairman. I would like to
just point out that my cross-examination here was

somewhat less than over at HR 21 in spite of what my

1 friend was thinking. 2 MR. B. CAMPBELL: I recognized that it was less. I am so advised. 3 4 MR. ANSHAN: Thank you. 5 THE CHAIRMAN: Who is next, Mr. Thompson? 6 Are you ready to proceed? 7 MR. THOMPSON: Yes, sir. When I see all 8 the empty chairs in the room I feel a little bit like the last act on amateur night. 9 10 MR. B. CAMPBELL: Am I allowed to tell my panel not to be lulled into a false sense of security 11 12 in that regard? 13 MR. THOMPSON: I didn't think you were 14 allowed to give them advice, Mr. Campbell. MR. B. CAMPBELL: I'm not. Go ahead and 15 16 ask the questions. 17 MR. THOMPSON: My cross-examination this 18 morning is maybe going to be on a little different approach than some of the others. We have heard 19 20 semantics and so on. I am going to be, I guess, 21 looking a little more at philosophy. Now, just for 22 your reference I indicated that I would be referring 23 only to Exhibit 452 in my cross-examination. 24 CROSS-EXAMINATION BY MR. THOMPSON: 25 Q. Now, panel, given what I have been

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. 1 reading and what I have been hearing and my 2 understanding of management styles and philosophies and 3 so on, would the change from planning to upper load growth to planning around the median reflect not just a 4 5 change in the method of planning but more than just a 6 moderate or subtle change in the way Ontario Hydro does business? Are we seeing something of a change in 7 management style and philosophy, as well? 8 9 MR. SHALABY: A. I think management 10 style and philosophy changed for many other reasons, 11 not primarily the planning to the upper and planning 12 around the median. But to address the significance of 13 that change, I think I indicated in direct evidence, 14 think of planning around the median as a way of managing uncertainty. 15 16 Hydro has managed uncertainty in the past 17 and will continue to do so in a very similar way to the 18 way it has done it in the past with one exception; that 19 one exception is not seeking approvals for major supply 20 that would be needed for upper load growth. 21 0. Okav. 22 Α. So in my mind, a lot of the 23 management of uncertainty philosophies and portfolio, 24 as we call it now, are in tact. We used to rely on

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that for ages and we will continue to rely on that.

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- One component now is not part of that portfolio and
  that is seeking approvals that would be necessary in
  the case of upper. And that is the major supply
  approvals at this stage.
- Q. I guess I am asking the question sort
  of in order to keep, the way my clients would think is
  that if I were to sit here and pretend I was on the
  board of directors of Hydro, which is a farfetched but
  not impossible situation.
- 10 A. You were Minister of Agriculture the
  11 last time you were here, so -- [Laughter]

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Q. I think that being on the board of directors of Hydro is probably a little bit more secure position, maybe not as safe. These are the sort of questions that if I were on the board I would ask.

Just from what I have heard, it looks
like there has been a change in philosophy, that you
are accepting more risk, you are looking at things a
little differently, a different style, a different
philosophy, and so on. I think from what I hear you
saying is that yes, we have changed, but just ever so
slightly; is that fair?

A. On this question, in my own mind we have changed slightly or a component of managing uncertainty has changed. I think what is in common is

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- a lot more than what is different. That is how I would say. What remains in common with the original approach is far larger than what is different today.
- Q. Maybe I have been reading more into

  other intervenors cross-examination than what is

  actually there, is that a --
- A. People have focussed on the difference rather than on what is common, yes.

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9 Q. All right. I seem to recall it being
10 said, and I think you have just said this now, that
11 planning around the median is a willing to accept and
12 manage greater risk. And I think that what you said,
13 the risk is involved in a planning risk of sorts.

Because you are willing to accept and manage and cope with more risk, would it be fair to say that you are now playing somewhat more of a hotter game than what you have been before? You have to have more of an ability to recognize and act on things than what you may have had previously.

A. I would characterize the risks to be of different nature than the risks we have taken with the previous approach. The previous approach also had risks, perhaps of a different nature than the risks we are taking now. So neither approach were risk-free.

And the nature of the risk we are taking now is

1 different than the risk that we took before. 2 Whether it is more or less, it is in 3 different areas and it is against different contingencies. I don't think we are putting our 4 customers at any greater risk than we were before. But 5 6 the risks in planning are of different nature. That is 7 my perspective on it. Just on that, Mr. Snelson referred in 8 9 direct evidence and in response to one of the 10 intervenors questions on page 26544 where, if I am correct, the planning risks involved mainly changes in 11 demand for electricity and gas prices. 12 13 Is this effectively correct as to what 14 you see the major planning risks to be? MR. SNELSON: A. No, I don't think 15 16 planning risks are confined to those. I was asked to 17 identify what additional risks we were accepting by the planning around the median approach. And I believe 18 19 Exhibit 452 has a reference to increased risk. 20 And I used as an example that with 21 planning around the median we are at increased risk in 22 the event that there is higher load growth and higher 23 natural gas prices because the responses that we are 24 relying upon to meet higher load growth are principally

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responses that are fueled by natural gas, whether they

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- 1 are Ontario Hydro natural gas-fueled options or non-utility generation fueled natural gas-fueled 2 3 options. 4 [11:27 a.m.] So the area where the risk is increased 5 and the one area that's easy to see, is that the 6 7 combination of high load growth and high natural gas prices, the risk is somewhat higher. 8
- Q. So as I think I heard you saying, the
  incremental risk involved in this change is the risk of
  having the demand change and the gas prices change.

  The reason I referred to it as planning risk is this
  the risks involved with the change in your planning,
  and not to put the dictionary terms on it, but just so
  I can understand it.
- A. That is the clearest one to see, yes.

  There may be some others, but that is the clearest one.
- 18 Q. Okay.

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MR. B. CAMPBELL: Mr. Thompson, I think
you sort of phrased that somewhat differently from Mr.
Snelson. Mr. Snelson's answer was in relation to the
combination of those two. I just want to be clear in
that in asking your questions that you are
characterizing it fairly.

MR. THOMPSON: Q. Just so I understand.

1 It's a combination, then, of the demand risk and the

price risk?

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3 MR. SNELSON: A. Yes, I believe I was 4 clear on that point.

Q. Okay. I may not have heard

correctly. I wasn't going to continue on, on that

point, I just wanted to make it clear that the

incremental risks were some combination of these two

and the nothing more rides on that.

Just before we go on the break, I am going to pose another question. That by changing philosophy or style by changing your reaction time, or whatever it is that we read about, I am going to identify or suggest to you that there is an increased risk of another type and ask you to comment on it, it's what I would call the operational risk. That the risk of being able to identify a trend and being able to know it's there, but for some reason or another not be able to act on it. The example I can think of is something like a super tanker, you have got the best radar equipment, the best direction-finding devices you have got, you are able to plan exactly where you are going, you know exactly where you are going all the time, you know exactly what is out there.

But because of the size and nature of the

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organization, in this case being the super tanker, your ability to react is somewhat limited. I am just not too sure. I understand and appreciate your comments about planning, but I guess my concerns are more along the lines of can you react? Is the risk that we have talked about earlier of having gas prices change and demand prices change only small part of overall management structure, and can you or do you think that you can adapt quick enough?

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That is also a concern in planning and it comes down to the question of length of time to recognize a trend, which is an internal thing, and then the length of time it takes you to implement the change once you have decided that change is necessary, and that's the lead time of whatever action it is you are proposing to take. And that lead time is partly a fundamental characteristic of whatever action you are going to take is the lead time to construct and build an operation, build a generation plant if that's what the case is your considering. And also in that lead time is the length of time it takes you to get the necessary approvals and permits to permit you to start the construction of the facility, and that's partly under Ontario Hydro's control and it is partly outside Ontario Hydro's control.

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1	The planning to the upper type of
2	approach seeks to provide increased flexibility by
3	ensuring that the approval processes are under way in
4	good time for the long lead time options that thereby
5	reduces your response time.
6	Planning around the median approach is
7	predicated on the expectation that the shorter lead
8	time options will be sufficient to cover the risks that
9	you face, at least for the length of time to cover both
10	the approval and construction process of a longer lead
11	time option.
.2	And so it is a reliance a recognition
13	that there is more shorter lead time options available,
4	and that because of the current situation of demand and
15	expected resources, there is less likelihood of needing
16	a great amount of additional resources, and that we can
L7	afford to rely upon those short lead time options for
18	some considerable period of time.
L9	MR. THOMPSON: I think this would be an
20	appropriate time for the break, Mr. Chairman.
21	THE CHAIRMAN: Thank you, Mr. Thompson.
22	We will break for 15 minutes.
23	THE REGISTRAR: Please come to order.
24	This hearing will recess for 15 minutes.
25	Recess at 11:35 p.m.

1 ---On resuming at 11:50 a.m.

THE REGISTRAR: Please come to order.

3 This hearing is again in session. Please be seated.

4 THE CHAIRMAN: Mr. Thompson?

5 MR. THOMPSON: Thank you.

Q. Just to follow up a little bit on the answer to the last question. Just to make it perfectly understandable, again to use the example if I were on the Hydro board, the two things about risk or the two things that I guess concern me about the changes I have seen in the update so far are, firstly, the thing that we just talked about, the risk of Hydro's abilities to identify and act on stimuli, and secondly, the risk of inability to act due to outside forces, things beyond your control like legislative and/or judicial delays.

These two things worry me far more than your ability to plan. I have perfect confidence in your abilities to plan, but again with my understanding of the way the organizations work, planners aren't always or aren't often the people who make things work.

So could you give me some reassurances, I guess, or some comfort that -- and I think Mr. Snelson partially addressed some of the concerns in his answer, but could you just give me some reassurances that in fact your organization can and will be able to meet and

1	cope with these two risks that I am concerned about?
2	MR. SNELSON: A. The two risks are the
3	ability to
4	Q. The ability to actually act.
5	A. Yes.
6	Q. You as planners are able to, as I am
7	confident, recognize and say to the people, "Hey, here
8	is what we need to do." Then you go to the line people
9	in your organization and say, "Make it happen." I am
0	oversimplifying.
1	But it is just that as planners I would
2	suspect that you may not be responsible for getting the
3	things done that you see need to be done.
4	So I just want to make sure that things
5	are going to get done both internally and externally.
6	You may not be able to give us any
7	guidance at all as to what you might do as an
8	organization to overcome any risks of delays due to
9	legislative and/or judicial problems.
0	A. I think both areas of concern that
1	you express are significant areas of concern that we
2	have to be able to address, and that was the situation
3	both before the Update and after the Update.
4	The ability to act internally is the
:5	responsibility of Ontario Hydro and we attempt to do

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- our best, to do that as a whole organization, not just the planners, it is the whole organization.
- The degree to which our ability to act 3 4 internally is constrained by external matters is, to 5 some degree, out of our control, but we do our best to work with environmental approval processes, with 6 7 consultation with the interested stakeholders outside 8 of the organization, to be able to put our plans into action. But these are challenging areas. They are 9 areas that we do have to address and we had to do it 10
- Q. I think the one question that I would
  have just as follow up to your answer; how much in your
  judgment has this challenge and I think that's your
  word how much has this challenge increased as a
  result of the Update?

before the Update and we have to do it now.

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- 17 A. I don't believe that in this respect
  18 it has an increased result of the Update. I think the
  19 challenge was there before and it is there now, and I
  20 don't think it is significantly larger now.
  - Q. All right. Okay.

I admit to some confusion about the exchange between yourselves and Mr. Hunter regarding certain portions of page 21 of Exhibit 452. The second paragraph from the top, I think you, Mr. Snelson, and

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1 Mr. Hunter were having some commentary about just what this paragraph meant. And I admit, I was confused. It 2 3 seems to me when I read it, the first sentence, it's simple and reasonable that a period of five years is 4 5 required to recognize and act on a fundamental new trend line. Yet, I seem to recall you saying something 6 7 about illustrative. 8 Now just what does this sentence really 9 mean, just so I can be absolutely clear? The first 10 sentence of the second paragraph. Does this in fact mean that, yes, it does 11 12 take us five years to recognize and act on a 13 fundamentally new trend line, or if not, just how long 14 does it? 15 The opening clause of the sentence Α. says, in order to provide an analysis, and continues, a 16 17 simple but reasonable starting point, and this is a 18 simplifying assumption for the purpose of analysis. Ιt 19 is not exactly how the real world happens because 20 that's much more complicated and there is no easy way

The reality is that as things change and evolve new trends emerge and they are recognized over a period of time and actions are taken upon them as the

of simulating exactly what happens in the real world.

But this is kind of an approximation.

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confidence that the new trend is there increases.

The simplifying assumption that is made

here is that essentially you don't see anything for

five years and then suddenly you see everything, which

is an approximation to a process in which the

realization of the new trend actually evolves through

time, and you do recognize some aspect of it for the

five years and you may not have completely recognized

it until after the five years.

Q. I guess my concerns were, and I think
Mr. Hunter maybe did a little bit as well, he said,
well, the first year you might notice something, the
second year you might notice something. And I
appreciate that it isn't a sort of eureka realization
at end of five years but it's on ongoing concern.

I guess the concerns that I had were the fact that just when in your normal review process does something come up that somebody recognizes, and then to go back to my concerns about the organization's ability to act in a timely fashion, I was just concerned that in fact something might come up that you recognize in a year but because of the internal organizational structure you may not be able to recognize it and do it for a much longer period of time, and that the organizational structure which was suited to planning

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to the upper might not be the same organizational 1 2 structure that would be responding to this new approach 3 in planning. And I think that was the concerns that I had. And if I can get your comments on my concerns, I 4 would certainly appreciate it a little more.

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On the planning to the upper approach and the planning around the median approach, in both cases load forecasts, long-term load forecasts are reviewed generally every year, other forecasts of economic variables are usually reviewed at least once a year, fuel prices are reviewed once a year, and we go through a business planning cycle where the new forecasts are brought together and adjustments are made to the activities of the Corporation particularly over the next five years and to some degree over the next 10 This is an annual business planning process. Also, long-term plans are modified, if necessary, based upon the new information that becomes available.

So I think that there is a continuing process of review. It is formalized in the business planning process once a year, and there are instances of decisions being taken and plans being changed in between business planning cycles if something arises that makes it clear that that change is appropriate.

Q. I have a question on that, two or

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1 three questions down, but since we are at it I might as well ask it. I am going to ask you if an annual 2 review is not often enough. Is a formalized annual 3 review effectively obsolete now that you are having to 4 recognize or change your plans possibly a little more 5 6 often to react to changed circumstances? 7 Is there something in Hydro or do you have any review or any indication -- I suppose since 8 9 the Update was only announced in January you really don't have any idea yet, but is it likely that we could 10 11 have some sort of review of this annual process to 12 update it? What comments would have on that? 13 I guess just to use an example, when I 14 first read this top of page 21 I said, well, we are 15 going to have decisions every three years and I 16 appreciate your comments about the five-year planning, 17 and I just sort of thought, well -- again, my first 18 impressions were maybe somewhat facetious, but I 19 thought, well, it's sort of like a drunk guy driving a 20 car. He has got three seconds to react but because 21 he's drunk it takes him five. And just by definition 22 it seems intuitive to me you are going to crash. I am 23 trying, in a fashion, to ask you questions just to 24 determine, and again I make no references at all or 25 disparaging comments about Hydro's abilities, but those

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are my concerns, just based on the surface of things

and I want to you reassure me that you are not going to

crash, as it were.

A. Well, as I have indicated, we do review things generally once a year. The Update Plan was produced about two years after the Demand/Supply Plan, and that was because there was seen a need to be a fairly substantial change to the proposals, the approvals put to this Board. In that intervening period there had been such adjustments to some aspect of longer term plans.

So it wasn't as though things were kept entirely static for those two periods. The plans are changing in their detail relatively frequently.

And as I say, the five years here is only a convenience for analysis. That is a rough approximation. We have to make some assumption like that otherwise you can't do an analysis of how bad things could be if you are wrong. If you got to presume how long you are going to be wrong before you come to a conclusion as to you should change your course. But I think that's a fairly conservative period.

Q. Several parties have mentioned part of my next concern and the answer may have been given,

- 1 and if it has I apologize. But you have changed somewhat in your outlook, and again I am asking this as 2 3 somebody who assumes I am on the Board again, what do 4 we have either as a member of the public or as a member 5 of a board except faith in your personal abilities and 6 Hydro's corporate conscience that you are going to make this work, and you are not going to be back in 10 years 8 saying we can't make planning around the median work. 9 [12:06 p.m.]
- My definition of a plan is something with

  some sort of implementation and control and review and

  monitoring procedures. Now, is there something that I

  have missed in the evidence in cross-examination so far

  or is it just too early in the process to be able to

  make any of these decisions?

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- MR. SHALABY: A. I think what you have adds to the confidence of what you said, there is an 80-year track record of this company providing reliable service and good service to its customers.
- Q. I'll let others comment on the track record. I am not capable of doing it.
  - A. The way I think of it is that this company has managed to respond to uncertainties at times greater than the uncertainties we face today. I think every generation thinks that the uncertainties

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- they face are the largest and unprecedented and the
  world is more uncertain than it ever was; I don't
  believe that one bit. I think the world was very
  uncertain in the 30s and in the 40s and in the 50s. I
  think Hydro responded probably with less options at
- 7 Q. Okay.

that time than it has today.

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- A. The 40s and 50s, they didn't have as
  many options as we have today and they managed to
  respond and provide the service. That gives comfort, I
  think, that the years ahead are going to be managed
  well and the service will be provided.
- 13 Q. Now, I have another concern in that 14 it would seem to me that planning to an upper load 15 growth, as done previously, was maybe a little, I don't 16 know whether the word easier to manage or accommodate 17 or somebody like environmentalists and government 18 legislators because, again, at the risk of 19 oversimplifying, everybody assumed, rightly, wrongly, 20 Hydro was always asking for the maximum.
  - So if you were a legislator, you would listen to the concerns about the opponents of Hydro, you would listen to Hydro saying we want this; the other people saying, they don't need anything. So we would sort of steer a middle course.

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1	Everybody would be not completely happy
2	but not completely unhappy. I'm not saying the system
3	was perfect, but it seemed to be part of the 80-year
4	success rate that we have had.
5	Now, I have a concern that possibly we
6	have changed to planning around the median. We just
7	don't have this, I don't know whether the word
8	adversarial process is the right word to describe it,
9	but we don't have a benchmark anymore for us in the
10	public to be able to evaluate how things are going.
11	Is there something there that you can
12	give us a guidance as to just how the rules of the game
13	are going to change for us as to be able to measure you
14	and to be able to say, well, yes, they have performed.
15	MR. SNELSON: A. Well, clearly, there
16	are many ways in which we are accountable to our
17	customers and to the public as to our performance.
18	There are accountabilities through the reporting
19	relationships between Ontario Hydro and the government
20	and the legislature. There is the Ontario Energy Board
21	process, and there is a great deal of information that
22	Ontario Hydro makes available.
23	I think the real fundamentals as to our
24	performance are, do we succeed in meeting our main
	position are, do we succeed in meeting out main

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criteria. And there are many of those criteria. We

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- talked about the criteria that we apply in planning.
- 2 And, for instance, if we were not supplying reliable
- 3 electricity to our customers, our customers would very
- 4 soon know about it and they would be telling us about
- 5 it. We would know about it ahead of time but they
- 6 would not be quiet about it.
- 7 If rates are going up higher than they
- 8 should, then our customers tell us about it. If our
- 9 environmental performance is not satisfactory, then
- 10 that is a matter of public debate and concern as to
- 11 what we should do to respond to that.
- 12 So I think there are many ways, and those
- are examples rather than exhaustive, but there are many
- 14 ways in which the public and our customers are aware of
- 15 whether we are doing our job or not.
- 16 Q. One last question. To follow up on
- Mr. Shepherd's idea of a radical planning committee,
- and I believe maybe that was his choice of words,
- 19 although maybe I wouldn't go so far as to say a radical
- 20 planning concept, I may have asked this in another
- 21 fashion.
- Does Hydro, has Hydro instituted any
- 23 plan, program, or advisory body either internally or
- externally to assist in the implementing, monitoring,
- 25 reviewing the whole process of change to planning

around the median? And I guess the comment is, it

seems to me to be somewhat hard to teach an old super

tanker new tricks.

Are you changing your system, changing the way you do things but using the same old processes and people or is there anything that you are doing in order to be able to help individual groups within Hydro say, okay, here is the way we are looking at things now. Here is what it means to, I don't know, whatever organizations or divisions who may not been able to completely and fully appreciate the change in planning philosophy?

I would presume, for example, now let me make a suggestion. The members on this panel here, after you are through here today or tomorrow, whenever you are through, instead of going back to your regular jobs, well, all right, we are going to go, these six people are going to be a committee. We have heard the comments and suggestions of people. Now we are going to go to the engineering division or the truck driving division or whatever it is that is appropriate to say, all right, we have changed our planning philosophy and approach. Here is what it might mean to you. We will help you to set up a system, adapt, and adjust to it.

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Has there been any of that sort of thing,

or would that suggestion be of any merit at all?

A. As the role of Ontario Hydro and the emphasis of its options and so on changes, then its organization adjusts to meet the adjusting role. And there are often communications of the sort that you described.

But there are also major shifts in the organization that take place to be able to gear up effectively to perform new roles. And, for instance, over the last few years, I don't key this to change in planning around the upper to planning to the median.

But I think it is part of the evolution of Ontario .

Hydro into a greater emphasis on demand management, and non-utility generation, a lesser emphasis on building major supply alternatives.

So you have seen a very large growth in the energy service part of the organization, the energy management branch to implement the demand management program. The non-utility generation division was set up some years ago, a few years ago, to get us into that part of the business.

The engineering side of the organization that has been focussed on building new generating plants has gone through a major reorganization to enable it to focus much more on the rehabilitation and

1 life extension of existing generating plants. There has been a major restructuring in that area. So there 2 are changes taking place in Hydro all the time to 3 respond to and implement the changes in the planning Δ 5 direction of the corporation. 6 MR. THOMPSON: I am pleased to hear that. 7 Those are my questions, Mr. Chairman. Thank you very 8 much, panel. 9 THE CHAIRMAN: Thank you very much, 1.0 counsel. MR. MATTSON: Good afternoon, Mr. 11 12 Chairman. Mr. Chairman, I believe for purposes of 13 cross-examination we provided members of the panel and 14 yourself with a package of material we will be 15 referring to during the course of the examination. And 16 if I could have an exhibit number for that. 17 THE REGISTRAR: Number 711. 18 ---EXHIBIT NO. 711: Package of materials to be used in Energy Probe's cross-examination of Panel 19 10. 20 THE CHAIRMAN: That is a lucky number. 21 MR. MATTSON: As usual, Mr. Chairman, 22 that exhibit is numbered in the top right-hand corner 23 with black pencil. And when I refer to the exhibit, I 24 will refer to that page number. 25 THE CHAIRMAN: Thank you.

## CROSS-EXAMINATION BY MR. MATTSON:

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2	Q. Now, many of the questions that form
3	part of the issues we are interested in have been
4	asked, so I'm going to attempt to lead you through the
5	questions to avoid duplication as much as possible. I
6	will begin the cross-examination with issues on the
7	planning process. And I will direct the questions, to
8	begin with, Mr. Snelson, at you.
9	Now, Mr. Snelson, concerning, first of
10	all, the initial Demand/Supply Plan element, which is
11	the basic load forecast, you indicated that since the
12	initial strategy was developed in Panel 1 evidence was
13	led that two assumptions have now lowered that
14	forecast, is that correct?
15	MR. SHALABY: A. That is correct.
16	Q. Thank you, Mr. Shalaby. And is it
17	fair to say, Mr. Shalaby, well, first of all, those two
18	assumptions are a higher projection of electricity
19	rates and a lower projection of electricity demand; is
20	that correct?
21	A. The first one is correct. The second
22	one is a lower projection of economic activity in
23	Ontario.
24	Q. Sorry, yes, thank you. Mr. Shalaby,

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is it fair to say that the major factors driving up

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1 Ontario Hydro's electricity costs are the poor performance of the existing system? 2 DR. LONG: A. Could you be a little more 3 specific in terms of time frame? 4 O. Well, since 1989 for the purposes of 5 6 this question. 7 Poor performance of the existing I don't think I can agree to that, but I don't 8 system. 9 have the details with me. 10 Q. Well, what would you characterize as 11 being the major factors of driving up the costs since 12 1989, or the electricity costs? 13 Well, I think as I have indicated in my testimony earlier and it is certainly true for '93 14 15 that the in-service of Darlington, not any problems 16 associated with Darlington but that the in-service of Darlington has been a contributing factor over a number 17 of years, especially '93. 18 Q. All right. And that is one. Can you 19 20 think of any others? 21 In real terms, lower inflation has 22 been one. I think you mentioned problems with our 23 existing nuclear system, poorer nuclear performance

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than originally expected certainly has been another.

There have been other things like pension costs.

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1.	But a pretty significant one over the
2	last few years has been a drop in demand associated
3	with the recession, and that has necessitated higher
4	rates. In total, there have been a number of reasons,
5	poorer nuclear performance being among them.
6	Q. And the lower demand has caused the
7	share of fixed costs to increase; correct?
8	[12:20 p.m.]
9	A. The share of fixed costs. The fixed
10	costs have to be spread over fewer kilowatts and
11	kilowatthours, certainly, yes.
12	Q. Yes. Thank you.
13	Now, if you could turn to page 1 of the
14	overheads, Exhibit 682, what I have is your priority
15	strategic directions. And from the evidence in chief
16	it was indicated at the start of the planning process
17	after defining the basic load forecast, one of the
18	first things that Ontario Hydro tried to do was
19	determine the capability of the existing system;
20	correct.
21	MR. SNELSON: A. Yes.
22	Q. Mr. Snelson, the first priority
23	strategic direction that I see up there is to maintain
24	and improve the existing and committed facilities;
25	correct?

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1	A. Yes.
2	Q. Did Hydro consider transforming the
3	existing system at all at this stage?
4	A. Well, the strategic direction talks
5	about improving the existing and committed facilities.
6	To some extent that may have some elements of
7	transforming them, I don't know what into, but there
8	are some elements of change anticipated in that.
9	Q. Was there a consideration of
10	adjusting or transforming the existing system into a
11	more competitive system?
12	A. There was no consideration of
13	changing the general nature of the existing system in
14	that respect.
15	Q. And there is no thought given to
16	changing the existing system at this time and to a
17	market pricing system or a marginal cost pricing
18	system; correct?
19	A. I believe that marginal cost pricing
20	was considered at a hearing of the Ontario Energy Board
21	some years ago at great length and was rejected through
22	that process that issue hasn't been reconsidered in any
23	detailed.
24	Q. So in terms of the priority strategic

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directions, it's fair to say it wasn't considered at

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2	A. That is correct.
3	Q. Was a more decentralized system
4	considered at this time in terms of maintaining and
5	improving the existing system and committed facilities?
6	A. A more decentralized system was
7	considered for additions to the existing system.
8	Q. Can you extrapolate on that?
9	A. I believe Mr. Dalziel in his direct
10	evidence referred to one of the planning questions that
11	was addressed in the Update as to whether there was
12	benefit in distributing the generating facilities to
13	avoid the need for major additions to the transmission
14	system.
15	Q. And that was distributed
16	geographically; correct?
17	A. That was distributed to match load.
18	Q. Thank you. Was a system that
19	considered the competitive dispatch of non-utility
20	generators considered at all in this priority strategic
21	direction?
22	A. I am not sure as to how this is
23	relevant to the existing system. We are interested in
24	non-utility generation. As we have said in our
25	evidence, most of the non-utility generation that we

this time?

Q. Mr. Snelson, I will go down then, the

have had available to us is not dispatchable in large
measure from the central control centre, but we have
stated that we are interested in acquiring dispatchable
non-utility generation.

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- 6 priority strategic directions, to the third one which 7 states encourage non-utility generation. Is it fair to say that that encouragement was only considered through 8 9 maintaining and improving the existing and committed facilities, looking at it through the existing system? 10 11 You did not look at that encouragement through 12 alternative systems such as the ones we have gone 13 through, competitive system or marginal cost price 14 system or competitive dispatch and NUG system; is that 15 correct?
  - A. We looked upon non-utility generation as being an option to add to the system as and when we require additional resources.
  - Q. Right, but after, first going through your first priority strategic direction which was to maintain and improve the existing and committed facilities; correct?
  - A. Yes. We have been at some length through the degree to which this represents a priority ranking, but certainly the first one in the list is

1	maintaining and improving the existing and committed
2	system.
3	Q. And all the ranking that occurs, Mr.
4	Snelson, it's fair to say, whether we are talking about
5	NUGs, other major supply options, demand management, et
6	cetera, all of those are looked at through the existing
7	system; correct?
8	A. I don't understand your through the
9	existing system.
10	We are in a particular situation, the
i1	existing system exists. It is there. That is its
12	characteristic. And so that is inevitably the starting
13	point of any planning exercise.
14	That is not to say that changes cannot be
15	made to the existing system. But you have to recognize
16	that that is the starting point that you start from.
17	Q. Those changes that could be made to
18	the existing system weren't looked at for the purpose
19	of the Demand/Supply Plan option; correct? You looked
20	at maintaining and improving the existing and committed
21	facilities?
22	A. Certainly maintaining and improving
23	the existing and committed facilities is a high
24	priority in our planning strategy which was extensively

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reviewed, and one of the purposes of that is to ensure

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- that our customers get the best value they can out of 1 the investments that they have already made. 2
- So do I take that to be a yes to my 3
- question? 4
- A. Can you repeat your question, because 5
- I am not sure I understand your question. 6
- Q. Mr. Snelson, I will give you an 7
- example. Non-utility generation, was it ever looked at 8
- through an alternative to the existing system of 9
- Ontario Hydro such as a competitive system, compared 10
- 11 how a non-utility generator would function in a
- 12 competitive system versus a non-utility generator
- 13 that's supplying power through the existing system?
- A. We have not looked at changing the
- 15 existing system into an competitive system in that
- 16 sense.

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- 17 Q. Thank you, Mr. Snelson, all the
- 18 discussion with respect to planning around the median
- or planning around the upper, et cetera, the 19
- 20 discussions with respect to planning all involve
- 21 acceptance of priority strategic direction No. 1, the
- 22 existing system, that's what we are looking at planning
- 23 with respect to, that's the starting point?
- 24 A. As I indicated, these priority
- 25 strategic directions are from the demand/supply

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- 1 planning strategy, which was settled after extensive public consultation, consultation with the Legislature, 2 3 and those are the priority strategic directions that have guided our plans. 4 In light of the problems that the 5 Q. 6 existing system has experienced in the past couple of 7 years, do you think it's wise that we look at 8 alternatives to the existing system? 9 A. We certainly see the importance of correcting some of the deficiencies in the existing 10 system, and that's one of the reasons that maintaining 11 12 and improving the existing and committed facilities is 13 a high priority. 14 0. Mr. Snelson, what was done in the Demand/Supply Plan planning process to identify how to 15 ensure that the NUG options would provide the existing 16 Ontario Hydro system with flexibility in the future? 17 NUG options are usually offered to us 18 A. with relatively short lead times, and that inherently 19 20 provides us with planning flexibility. 21 Q. But my question is, in the Demand/Supply Plan planning process, what did Ontario 22
  - Hydro do to identify how to ensure that these NUG options would provide the existing Ontario Hydro system with that flexibility?

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1	A. I have explained that flexibility, if
2	we are talking about planning flexibility, then the
3	short lead time of non-utility generation options
4	inherently provides that flexibility.
5	Q. Mr. Snelson, did you analyze how
6	transmission policies could be restructured and
7	improved to facilitate, for example, third party access
8	to the grid?
9	A. What do you mean by third party
10	access to the grid?
11	Q. Parties other than Ontario Hydro?
12	A. And what are the parties other than
13	Ontario Hydro going to do with the grid when they have
14	access to it?
15	I am sorry, if I am appearing somewhat
16	I am interested to know what the question is, because I
17	see this as a vague comment.
18	Q. No, I understand. If you haven't
19	looked at it I can see how it would give you problems.
20	But I would like to know if you have analyzed how
21	transmission policies could be restructured to improve
22	or to facilitate third party access, parties other than
23	Hydro to sell power to customers?
24	THE CHAIRMAN: What you are really
25	talking about is non-utility generators providing

1 direct services to the customers in Ontario; is that 2 what you mean? 3 MR. MATTSON: Mr. Chairman, that would be 4 part of it. 5 THE CHAIRMAN: Through the existing 6 transmission system. 7 MR. MATTSON: Yes, Mr. Chairman, or even 8 to Ontario Hydro for that matter. Just third party 9 access. 10 THE CHAIRMAN: They do it through Ontario 11 Hydro right now. That's what happens. 12 MR. MATTSON: I understand, Mr. Chairman. And I am asking specifically what they did to analyze 13 14 the transmission policies to do that, to facilitate 15 that. MR. SNELSON: This is to facilitate a 16 17 non-utility generator generating power and that Ontario 18 Hydro would wheel that power to a customer of the non-utility generator who is not a customer of Ontario 19 20 Hydro? 21 MR. MATTSON: Q. Or to a customer of 22 Ontario Hydro through Ontario Hydro. With respect to your transmission policies what have we seen in the 23 Demand/Supply Plan to support that that could take 24 25 place?

MR. SNELSON: A. Non-utility generators
have access to the grid and that electricity is
delivered to customers of Ontario Hydro, that process
is the normal way in which non-utility generators,
purchase non-utility generators work in this province.
Q. So it's fair then whatever potential
the existing system has, that's as far as your
investigation went. You are saying that you didn't
bring any further information before the Board; is that
correct?
A. We have, I believe, discussed a
non-utility generation wheeling policy, which, if my
understanding is correct, permits a non-utility
generator to wheel power through the Ontario Hydro
system to another location of his own facilities.
Q. So what you have now, that's as far
as you investigated; correct?
A. That's as far as our policy goes.
Q. Thank you.
Now, if you are treating gas-fired
non-utility generators as a reasonable alternative in
the planning process, which I believe is now the
information in the Update, would you not agree that the
Board should be made aware of the costs and benefits
that might accrue to the public if Hydro moved towards

1 a more decentralized system serviced by many suppliers of power, what the costs and benefits would be and 2 3 where the barriers would be to implementing such a 4 system? 5 MR. B. CAMPBELL: With respect, Mr. 6 Chairman, wasn't that what Panel 5 was about? It was 7 all about non-utility generation, and any issues that 8 my friend wanted to explore with respect to specific 9 policies, he had more than adequate opportunity to do 10 so. MR. MATTSON: Mr. Chairman, certainly at 11 12 Panel 5 I was certainly entitled to ask about the 13 existing non-utility generation and how it 14 inter-relates with the existing system. Right now I am 15 asking the planners how much further they went, further than the existing system, and what they have brought to 16 this Board in terms of alternatives to the existing 17 18 system and alternative ways of supplying electricity. 19 THE CHAIRMAN: I think the problem with the question was there was about seven questions built 20 into it, and I think if you can break them down a 21 22 little bit, it might be a little easier for the panel 23 to deal with them. Thank you, Mr. Chairman. 24 MR. MATTSON: Mr. Snelson, when I discussed earlier 25

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1	the existing system and whether you considered it a
2	decentralized system, I believe the answer was, your
3	focus was with respect to your priorities strategic
4	directions on the existing system; correct?
5	MR. SNELSON: A. I don't believe you
6	asked me whether I considered the existing system to be
7	decentralized.
8	Q. Did Ontario Hydro consider a
9	decentralized electrical system serviced by many
10	suppliers of power?
11	A. I think that the sources of
12	generation - and Mr. Dalziel referred to this earlier
13	on - have some aspects of a centralized system and some
14	of a decentralized system. The system has small
15	sources of power that are distributed, it has 70
16	hydraulic generating stations. It also has some large
17	sources of power in large generating plants like
18	Nanticoke and Bruce.
19	Q. Mr. Snelson, in light of the fact
20	again that you are treating gas-fired non-utility
21	generators as a reasonable alternative in the planning
22	process, would you not agree that issues such as access
23	to the grid by third party producers or third party
24	wheeling would be evidence that we should have before
25	us in looking at the Demand/Supply Plan option?

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THE CHAIRMAN: That was discussed. That
was discussed in Panel 5, the whole issue of wheeling
was discussed in Panel 5 and went into great detail.
MR. MATTSON: Q. Mr. Snelson, no
information has been brought by Ontario Hydro before
this Board with respect to the cost and benefits and
how Ontario Hydro could go about implementing third
party wheeling; correct?
MR. B. CAMPBELL: That's not correct, Mr.
Chairman. Panel 5 discussed Ontario Hydro's views with
respect to wheeling from its perspective. That was
done.
MR. MATTSON: Q. I agree. And the
position was that you would not that that
information was not brought before the Board as to how
to do it because you don't do it; correct?
THE CHAIRMAN: They don't do it for
reasons that they gave. Now if there are those who
think that is something they ought to do, then they can
bring evidence forward to demonstrate that. But I
think the Panel 5 witnesses went into this in great
detail as to why as a matter of present policy they
don't do that.
Now this is a controversial issue and

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is pretty well on the table.

23

24

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2 What you want to ask these witnesses 3 about, I would think, is to what extent, if any, in the planning process those matters were considered in the 4 5 overall Demand/Supply Plan. Those are the questions. 6 But I think it get into the details of it, Mr. Campbell 7 is right, they were dealt with in Panel 5. 8 MR. MATTSON: Thank you, Mr. Chairman. 9 Q. Mr. Snelson, are you aware of any 10 alternatives that Ontario Hydro rejected through the 11 Demand/Supply Plan planning process because the system 12 or the grid, the transmission grid was unable to 13 facilitate the purchase of that power? 14 MR. SNELSON: A. I'm not aware of any 15 technologies that were rejected for generating 16 electricity or for saving electricity, demand/supply 17 options that were rejected in the planning stage because they couldn't be accepted on the grid. 18 19 Q. Now going beyond the technologies 20 themselves, were you aware of any alternatives that 21 were rejected because -- or an option that was rejected 22 because the system or the grid was unable to facilitate

A. What do you mean by an option that is different to a technology?

the purchase of that power?

1	The way I used it, I thought I used it to
2	mean option.
3	There are no demand management options,
4	there are no non-utility generation options or major
5	supply options that I know of that were rejected at the
6	planning stage because they couldn't be accepted on the
7	grid.
8	Q. All right. If you to turn to
9	transcript 104, please.
.0	MR. B. CAMPBELL: We are going to have to
.1	go and get it, Mr. Chairman, if we could have a moment.
.2	[12:42 p.m.]
.3	MR. MATTSON: It is at page 18366, if you
4	want to take this opportunity to just read the page.
.5	THE CHAIRMAN: What page?
.6	MR. MATTSON: 18366, Mr. Chairman.
17	MR. B. CAMPBELL: They will take the
18	opportunity once we have got the transcript. It is not
19	in the hearing room.
20	THE CHAIRMAN: We are getting it.
21	MR. MATTSON: Just for the record, Mr.
22	Chairman, we did provide Mr. Campbell with a letter as
23	to all the transcripts we would be referring to in a
24	June 9th letter, so it is not as though I didn't remind
25	him

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1	THE CHAIRMAN: I think that one was,
2	perhaps, not included because we got the same letter
3	and we didn't have it either.
4	MR. MATTSON: That's correct. It must
5	have been a typo, Mr. Chairman.
6	MR. B. CAMPBELL: I accept the apology.
7	MR. MATTSON: Q. Now, Mr. Snelson, at
8	the bottom of the page 18366, I am asking Mr. Huggins a
9	number of questions. And I turned him to a Globe and
10	Mail article which was page 27 of the exhibit. And
11	that was Exhibit No. 460.
12	And the article referred to a plant in
13	Michigan called the CMS Corporation, that it offered to
14	sell Ontario Hydro long-term contracts to power. And
15	it indicated that they had a capacity as much as 2,000
16	megawatts.
17	On page 18369, at line 14, or line 16,
18	after asking Mr. Huggins if he was aware of it, he
19	added, I might add I am painfully aware of this deal.
20	He indicated in the next page that Mr. Eliesen would be
21	meeting the vice-president of the corporation at the
22	airport, or had met with him at the airport on Friday,
23	that Ontario Hydro would be awaiting the offer of this
24	proposal.
25	And you will note at the top of page

1	18371, Mr. Huggins stated:
2	We don't know the amounts, we don't
3	know the energy, we don't know the price,
4	we don't know the delivery path or the
5	cost of wheeling. Almost every parameter
6	of this possible purchase are unknown.
7	And he also expressed some comments that
8	he didn't expect that the proposal would be coming, as
9	he had asked for it on a number of occasions.
.0	Now, is anyone on the panel aware if
.1	Ontario Hydro has received the proposed contract for
.2	this sale of power? And if so, if they are aware of
.3	the contract and the contents.
4	MR. SNELSON: A. Exhibit 711, which is
.5	your exhibit of cross-examination materials for this
.6	panel.
.7	Q. Yes.
.8	A. Page 1 has a letter to your from our
.9	lawyer, Laura Formusa, to you dated April 28th. And
20	the information in that letter is about the extent of
21	my knowledge.
22	Q. All right. If we turn to page 1 of
23	the exhibit, Mr. Snelson. I note that the letter
24	indicates that regarding the possibility of further
25	firm long-term purchases has not changed the evidence

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- of Panel 7. Since your cross-examination of Mr.
- 2 Huggins regarding the MCV proposal, Ontario Hydro did
- 3 receive a proposal from MCV for the purchase of power
- 4 beginning in the mid-1990s. As in the case of major
- 5 supply NUGs, there is no requirement for the proposed
- 6 power purchase from MCV. And in addition, the
- 7 transmission to incorporate a purchase from MCV is
- 8 inadequate. Therefore, Ontario Hydro is not pursuing
- 9 the MCV proposal further.
- Now, is this a situation, Mr. Snelson,
- 11 where evidence on transmission barriers to the
- 12 facilitation of an alternative method of carrying out
- the undertaking such as this would be relevant in terms
- of weighing the costs and benefits of the alternatives
- that you have brought before this Board?
- 16 A. I am not familiar with the details of
- this proposal, though I have an understanding at about
- the level that is in this letter. The primary reason
- that is given in this letter is that we don't need the
- 20 power at that particular time, just as we don't need
- 21 more combined-cycle gas non-utility generation in the
- province at that time from non-utility generators.
- There is a transmission reason in there.
- 24 If we were to be pursuing the purchase, then one of the
- 25 questions we would have to ask for this particular

1 purchase from this particular location would be if we 2 want to proceed with this purchase, is it worth having 3 the transmission upgraded to be able to accommodate it. 4 Q. Mr. Snelson, it is fair to say that 5 you have indicated in evidence in chief that a major factor in the Update is based upon the flexibility 6 7 offered by major supply NUGs. 8 THE CHAIRMAN: Their evidence in this panel is at that the moment they are not accepting 9 10 proposals from major supply NUGs. 11 MR. MATTSON: Q. But, Mr. Snelson, 12 certainly a major factor in the Update for not 13 requesting approvals is the flexibility that major 14 supply NUGs offer you. 15 That is correct. And flexibility has 16 two components. One is that you don't need to buy it 17 if you don't need it. And if you do need it, then you 18 can buy it with a relatively short lead time. 19 Now, if we are going to accept 20 Ontario Hydro's proposition that major supply NUGs do 21 offer Ontario Hydro some flexibility in the long-term 22 with respect to major supply NUGs, don't you think that 23 information on the costs and benefits of overcoming, for example, transmission barriers such as this one 24 identified, it would be helpful to know as to whether 25

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or not that alternative is a reasonable one that should be pursued further?

MR. B. CAMPBELL: Well, Mr. Chairman,

with respect, my friend seems to have forgotten totally

that Panel 7 identified for the Board the major

improvements that Ontario Hydro felt it had to make to

its transmission system, the timetable for doing that,

and the fact that it had plants underway to do that

exact thing.

So, for my friend to keep characterizing it as if no one had ever heard of this idea is, in my submission, not only incorrect; it is actively misleading. And I do take the position that that matter was fully gone into in Panel 7. There is no point in repeating it here.

MR. MATTSON: Mr. Chairman, I take great exception to Mr. Campbell's complete reliance on the evidence of the earlier panels when I am talking about planning issues and what evidence went into planning with respect to the Demand/Supply Plan options. It is clear in Panel 7 --

THE CHAIRMAN: The evidence was what was given in Panel 7. I think you are straying back into the detailed areas of Panel 7. I think you have to deal with this panel on the basis of planning issues.

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1	MR. MATTSON: Q. If you turn to Exhibit
2	No. 3, chapter 14, page 7, Mr. Snelson, which is your
3	Demand/Supply Plan, the heading in the right-hand
4	column is Potential for Purchases from the U.S. And
5	the last paragraph, the next page, top of that section
6	states:
7	Accordingly, because of the
8	uncertainty in the U.S. supply/demand
9	picture and the high cost of purchases,
10	Hydro cannot at this time rely on the
11	U.S. for reliable and economic supply of
12	electricity.
13	Correct?
14	MR. SNELSON: A. That is what was said
15	in Exhibit 3. I believe Mr. Huggins may well have
16	qualified that in the light of current circumstances on
17	Panel 7.
18	Q. All right. Now, surplus capacity and
19	the lack of adequate transmission lines are not stated
20	as reasons for discarding this option at this time, was
21	that correct?
22	THE CHAIRMAN: Mr. Huggins, again, gave
23	quite extensive evidence about the various
24	possibilities for purchases out of the province and the
25	reasons why they were or were not picked up.

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1	MR. MATTSON: Mr. Chairman, the reason
2	why this deal was, in fact, discarded is evidence that
3	has come to light since Mr. Huggins' evidence.
4	THE CHAIRMAN: When you say "this deal,"
5	what do you mean by "this deal"?
6	MR. MATTSON: CMS alternative supply of
7	electricity.
8	THE CHAIRMAN: I don't think we want to
9	hear any more about that particular deal, Mr. Mattson.
10	The evidence is that they are not accepting proposals
11	today for new major supplier NUGs. That is Hydro's
12	position right now, whether the transmission is there
13	or isn't there; is that correct?
	or concrete that correct.
14	MR. SNELSON: Yes, that is correct.
14 15	
	MR. SNELSON: Yes, that is correct.
15	MR. SNELSON: Yes, that is correct.  MR. MATTSON: Q. Mr. Snelson, if you do
15	MR. SNELSON: Yes, that is correct.  MR. MATTSON: Q. Mr. Snelson, if you do  rely on them for flexibility in your Update in the
15 16 17	MR. SNELSON: Yes, that is correct.  MR. MATTSON: Q. Mr. Snelson, if you do  rely on them for flexibility in your Update in the  long-term, at some point you will have to have the
15 16 17 18	MR. SNELSON: Yes, that is correct.  MR. MATTSON: Q. Mr. Snelson, if you do  rely on them for flexibility in your Update in the  long-term, at some point you will have to have the  transmission capability to implement these
15 16 17 18	MR. SNELSON: Yes, that is correct.  MR. MATTSON: Q. Mr. Snelson, if you do  rely on them for flexibility in your Update in the  long-term, at some point you will have to have the  transmission capability to implement these  alternatives, correct?
15 16 17 18 19 20	MR. SNELSON: Yes, that is correct.  MR. MATTSON: Q. Mr. Snelson, if you do  rely on them for flexibility in your Update in the  long-term, at some point you will have to have the  transmission capability to implement these  alternatives, correct?  MR. SNELSON: A. Yes, and that was
15 16 17 18 19 20 21	MR. SNELSON: Yes, that is correct.  MR. MATTSON: Q. Mr. Snelson, if you do  rely on them for flexibility in your Update in the  long-term, at some point you will have to have the  transmission capability to implement these  alternatives, correct?  MR. SNELSON: A. Yes, and that was  addressed by Dr. Macedo on Panel 7.
15 16 17 18 19 20 21	MR. SNELSON: Yes, that is correct.  MR. MATTSON: Q. Mr. Snelson, if you do  rely on them for flexibility in your Update in the  long-term, at some point you will have to have the  transmission capability to implement these  alternatives, correct?  MR. SNELSON: A. Yes, and that was  addressed by Dr. Macedo on Panel 7.  Q. Was there any evidence brought to how
15 16 17 18 19 20 21 22 23	MR. SNELSON: Yes, that is correct.  MR. MATTSON: Q. Mr. Snelson, if you do  rely on them for flexibility in your Update in the  long-term, at some point you will have to have the  transmission capability to implement these  alternatives, correct?  MR. SNELSON: A. Yes, and that was  addressed by Dr. Macedo on Panel 7.  Q. Was there any evidence brought to how  to address this barrier?

1	discussed.
2	THE CHAIRMAN: Yes, there was. It may
3	not have been adequate in your view, but they did the
4	best they could.
5	MR. MATTSON: Q. Mr. Snelson, since the
6	planning process began for the Demand/Supply Plan back
7	in 1985, around 1985, I believe again the evidence has
8	been that rising rates lower demand and a fall in the
9	natural gas prices have had an impact on your plan,
10	correct?
11	MR. SNELSON: A. Can we deal with them
12	one at time?
13	Q. It is been gone into in the evidence,
14	though, to great extent, correct?
15	A. I am sorry. When you give me a list,
16	I remember the last one. I am not sure I remember the
17	first one, so
18	Q. All right. Increasing rates.
19	A. Dr. Long has referred to increasing
20	rates. That has had an effect on the load forecast.
21	Q. Lower electricity demand?
22	A. That is load forecast, and I believe
23	we discussed the effect that that has had. I believe
24	since 1985 we have had both increases in the load
25	foregast hoggues of high growth, while we were having

1 high growth in the late 1980s and we have had some reduction in the load forecast since the current 2 3 recession was started to be factored into forecast. 4 Q. And a drop in the price of natural 5 qas? 6 Α. That has had an effect upon the 7 competitive position of options. 8 And is it fair, Mr. Snelson, to 9 suggest that an interest in Ontario towards a 10 competitive market for electricity has been sparked 11 since the beginning of the demand/supply options in the 12 mid-1980s? 13 Α. I am not sure that is a major factor 14 in our planning. 15 No, but it is fair to say that there 16 has been an interest since the planning process began. 17 A. I believe there has been interest in 18 such matters both before the planning process began and 19 during it and now. 20 Would you say that rising rates, 21 lower electricity demand, and the price of natural gas 22 have accelerated that interest? 23 Α. In some quarters, maybe, yes. 24 Now, I have provided, at page 4, 5, 0. 25 6, and 7 of the exhibit, some editorials from leading

1 newspapers in Ontario that were published after the 2 Demand/Supply Plan options in 1989 and identify alternatives to Hydro's existing system as 3 4 possibilities. 5 [12:55 p.m.] 6 Have these articles made Ontario Hydro 7 reconsider if all reasonable options were investigated 8 by the Corporation in determining how to meet needs of 9 Ontario's electricity customers in the Demand/Supply 10 Plan? 11 DR. LONG: A. Are you asking whether it's made us reconsider? 12 13 Q. Yes, Dr. Long. 14 I think Hydro's position on Α. No. 15 these matters was I think clearly stated in the 16 argument around the funding panel and they haven't 17 changed. 18 Q. Page 2 of the exhibit you will note 19 an excerpt from New Directions: A Blueprint for 20 Economic Renewal and Prosperity in Ontario prepared by 21 the Ontario Progressive Conservative Caucus Leader, 22 Mike Harris. And at page 2 --23 MR. B. CAMPBELL: Just a moment. I was a 24 little unclear on this because I noticed it had Mr. Solomon's name at the bottom. I took it he was the 25

- 1 author.
- 2 MR. MATTSON: No. This is page 16 of the
- 3 New Direction.
- 4 MR. B. CAMPBELL: I'm sorry?
- 5 THE CHAIRMAN: I take it it's a quote of
- 6 Mr. Solomon's that's imbedded in the material.
- 7 MR. MATTSON: That's correct. I have
- 8 just provided an excerpt of page 16 of New Directions
- 9 and it speaks of Ontario Hydro reforms. I needn't get
- into that at the moment.
- MR. B. CAMPBELL: I'm sorry. I see what
- it is, it's a quote at the bottom that's Mr. Solomon.
- 13 I'm sorry, my photocopy is terrible. It's obviously
- about three layers in and I thought it was like a
- 15 signature, like an author of that page.
- MR. MATTSON: No.
- MR. B. CAMPBELL: I'm sorry. It's just
- my photocopy is so bad I got confused on it.
- MR. MATTSON: No, just referring to an
- 20 expert in the field.
- 21 MR. B. CAMPBELL: I notice the position
- of the third party on this matter.
- 23 THE CHAIRMAN: Perhaps it's time to have
- 24 lunch.
- MR. MATTSON: Yes, Mr. Chairman.

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1	THE REGISTRAR: Please come to order.
2	This hearing will adjourn until 2:30.
3	Luncheon recess at 12:59 p.m.
4	On resuming at 2:30 p.m.
5	THE REGISTRAR: Please come to order.
6	This hearing is again if session. Be seated, please.
7	THE CHAIRMAN: Mr. Campbell?
8	MR. B. CAMPBELL: Mr. Chairman, Mr.
9	Shalaby advised me a moment ago that you will recall
10	that he told Mr. Hunter he would check on his answer
11	with respect to the mandation risk portion of the
12	discussion in Exhibit 452 and would let him know if
13	there was any correction or additions is he needs to
14	make. I am told that he wants to say something. My
15	recommendation is, with Mr. Mattson's permission which
16	I have obtained, they be allowed to add his additional
17	comments and I will ensure that Mr. Hunter gets those
18	pages of the transcript directed to him.
19	THE CHAIRMAN: Thank you.
20	MR. SHALABY: This is regarding a
21	discussion that started on page 27992 on June 8th, and
22	it was explained why the mandation risk in Hydro's
23	Exhibit 452A is 900 megawatts in the year 2000, why is
24	that different from the standards, plus the mandation
25	in fuel switching which added up to 1,440 megawatts.

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- And the explanation I offered at the time is that I

  guess perhaps the existing standards will take care of
- 3 the difference.
- I am now advised that the reason the
- 5 analysts have two different estimates is that they
- 6 consider Hydro's programs capable of making up some of
- 7 the shortfall for mandation.
- 8 So if there wasn't mandation, that would
- 9 have taken care of 1,440. Hydro's programs would make
  10 up some of that difference and the deficit will only be
- 11 900, not the full 1,440.
- 12 THE CHAIRMAN: .9 then is measuring the
- mandation risk, in doing that they are offsetting the
- 14 program results?

to.

21

- MR. SHALABY: Hydro's programs will
- offset some of the shortfall that would occur if
- 17 mandation does not take place.
- THE CHAIRMAN: So the figures in the
- 19 table that were in the fuel switching and the other
- 20 standards, I forget the table that you were referring
- MR. SHALABY: Table C-3, I think it was.
- THE CHAIRMAN: Case C.
- MR. SHALABY: Yes.
- 25 THE CHAIRMAN: Those figures then stand.

1	MR. SHALABY: Those stand.
2	I am only explaining why is that we think
3	if standards and mandation doesn't come about, why is
4	that we think the risk is not 1,440 but 900. And we
5	think it's not 1,440 completely because our programs
6	will make progress in these areas even though mandation
7	does not exist.
8	THE CHAIRMAN: Thank you.
9	MR. B. CAMPBELL: Thank you, Mr.
10	Chairman.
11	THE CHAIRMAN: Mr. Mattson?
12	MR. MATTSON: Thank you, Mr. Chairman.
13	Q. We finished off just before lunch at
14	page 3 of the exhibit, 711. And if you would look five
15	paragraphs done that page, you will note that this New
16	Directions document of the Conservative Parties
17	indicates that:
18	Consumers and the environment would
19	benefit if Ontario privatized more
20	generating stations and opened up the
21	electricity sector to competition.
22	Mr. Snelson, I take it that you wouldn't
<b>2</b> 3	agree with that statement?
24	MR. SNELSON: A. Well, I don't know what
25	is intended by the statement. This is a political

- document from an opposition party in the Ontario 1 Legislature, as I understand it, I haven't seen the 2 document before. And whether that is included or 3 exists in addition to what is described in the next 4 sentence, which is Hydro should also expand the 5 6 opportunities of cogeneration and continue to purchase 7 power at the same price at which the utility produces it, that last statement -- as I say, this is first time 8 9 I have seen it, but on the face of it, it looks to be a 10 statement that we should continue to buy power at 11 avoided cost, and I don't know whether that's in 12 addition to or different to what is intended in the 13 first sentence. 14 But would you agree that consumers 15 and the environment would benefit if Hydro privatized 16 more generating stations and opened up the electricity sector to competition? 17 18 A. I don't see on the face of it what 19 ownership has to do with the effects on consumers and 20 the environment. 21 0. And those weren't options that were
- A. We did not evaluate the option of privatizing Ontario Hydro.

evaluated in the Demand/Supply Plan options; correct?

22

Q. Has Ontario Hydro taken notice of

1	changes in the electricity systems in other Canadian
2	jurisdictions such as Nova Scotia, British Columbia or
3	Alberta moving towards competitive systems?
4	A. I think we are aware of some of the
5	things that are happening there, I am not sure just how
6	much we are aware of all the details.
7	Q. Do you believe that there is
8	information or other alternatives being identified in
9	those provinces that we should hear about at this
.0	hearing before deciding upon your Demand/Supply Plan
.1	option?
.2	A. I believe we presented the
.3	information on the options that alternatives for both
.4	the options were are proposing and the alternatives to
.5	what we are proposing.
. 6	Q. Mr. Snelson, what impact did the
.7	decision of New York State to cancel the James Bay 2
.8	contract have on your plans, if any, to buy power from
.9	James Bay 2? Was there any impact with respect to your
20	plan that that had
21	THE CHAIRMAN: There are no plans, as far
22	as I know, to buy power to James Bay 2.
23	MR. SNELSON: Ontario Hydro has no plans
24	to buy power from James Bay 2.
25	MR. MATTSON: Q. Was there anything that

1	can be learned from New York's decision, though, to
2	cancel their contract to buy power from James Bay 2?
3	MR. SNELSON: A. I don't know of any
4	specific lessons that we would learn from that, it's
5	all part of the utility environment in North America.
6	Q. Thank you. Moving to another area
7	briefly. Mr. Snelson, I would like to deal with
8	just ask the question with respect to the role of major
9	supply NUGs in the Update.
10	Is it fair to say that recently Ontario
11	Hydro changed some of the rules regarding independent
12	power producers in this province where independent
13	power found themselves in a position where they had
14	spend a substantial sum of money on efforts to find
15	Ontario Hydro or towards supplying independent power
16	to Ontario Hydro and then to find that their efforts
17	were.
18	THE CHAIRMAN: Mr. Mattson, that is a
19	very argumentative question. Can't you put it in a
20	little simpler fashion for Mr. Snelson to try and
21	answer it?
22	MR. MATTSON: Yes, Mr. Chairman.
23	THE CHAIRMAN: They have changed their
24	policy with respect to accepting proposals for major
25	supply NUGs and they have explained why that was. You

1	can certainly follow up and ask them about that.
2	MR. MATTSON: Thank you Mr. Chairman.
3	Q. Mr. Snelson, could these companies,
4	now that these proposals have been put on hold, could
5	they become reluctant to invest any more into the
6	electricity sector if they are not given guarantees
7	that their investment is assured?
8	MR. SNELSON: A. Well, in most cases, in
9	fact in all cases none of these proposals that have
10	been put on hold have got signed contracts.
11	So, I am not sure what investment it is
12	you are referring to. They haven't built a generating
13	plant.
14 .	Q. But you would agree that many of the
15	independent power producers spend substantial amounts
16	of money up front because of the belief that they felt
17	that they would have signed contracts with Ontario
18	Hydro for the supply of electricity; correct?
19	A. They certainly in many cases will
20	have had to spend some money to prepare their
21	proposals. I think they would always realize that
22	there was some chances that they might not be selected.
23	THE CHAIRMAN: Let me ask you this, Mr.
24	Snelson. The policy of not now accepting proposals for
25	major supply NIGs what effect, if any does that have

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- in dampening the prospects of future proposals in
- future years, should that policy change?
- 3 MR. SNELSON: I think it is important
- 5 people fairly and openly. And the projects that had

that we be seen to have dealt with these people fairly

- people lattly and openly. And the projects that had
- 6 been given status to negotiate, which were 13 projects,
- 7 they have been given a different treatment and
- 8 preferential treatment to projects which have never
- 9 been given any encouragement as a likely project to
- 10 proceed. And they were put on hold in December and
- 11 they are being renegotiated, but they have not just
- 12 been told to go away. And it may very well be that
  - quite a large number of those projects in one form or
  - another will proceed.

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- MR. MATTSON: Q. Have you considered,
- Mr. Snelson, whether the private investment capital
  that you are counting on in the Update, if the need be,
  - 18 will be available in the future?
- MR. SNELSON: A. We have considered the
- question as to whether it is likely there will still be
- 21 proposals in the future, and our view is that, yes,
- 22 there will be.
- Q. I would like to move to a new area.
- 24 If you could turn to page 8 of the exhibit. This is an
- 25 interrogatory from Municipal Electric Association, ID

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THE REGISTRAR: That is.42.

3 ---EXHIBIT NO. 683.42: Interrogatory No. 2.9.7.

4 MR. MATTSON: Q. Now, this interrogatory

5 was answered approximately one year prior to the

release of the Update on January 14th, 1991. You will

note the question asks:

8 Demand/Supply Plan report indicates

9 that units are to be retired at the end

of their 40-year service life. Please

provide the supporting information or the

studies related to the decision to retire

units as opposed to carrying out life

extension efforts.

And the third paragraph in the response:

Hydro is 12 to 24 years away from the

planned retirement date of the units that

are expected to retire during the 25 year

actual decisions to retire these units

period of the Demand/Supply Plan.

will require detailed consideration of a

number of factors including technical,

economic, safety and environmental

regulations. A detailed review of life

extension versus retirement will take

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- place at the end of the service life, as
  the service life nears.
- Now, what has happened since then, Mr.
- 4 Snelson, to cause Hydro to change its position on this
- 5 issue?
- 6 MR. B. CAMPBELL: Mr. Chairman, wasn't
- 7 that gone into in exhaustive detail in Panel 8? Life
  8 extension was the subject of an enormous amount of
- 9 cross-examination in Panel 8, this very question.
- 10 MR. MATTSON: I understand, but from a
- ll planning perspective, with respect to planning in the
- 12 period that they are talking of here, and the
- uncertainty in planning over a 12 to 24-year period,
- Mr. Chairman, just from that perspective alone, why
- there would be any more certainty now with respect to
- 16 the question than there was when this interrogatory was
- 17 answered.

some plans.

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- 18 THE CHAIRMAN: The interrogatory says
- 19 that they are not going to do it for a while, and as

Panel 8 explained they are now considering it. They

- 21 haven't made any final decisions yet, but they have
- 21 haven't made any final decisions yet, but they have
- 23 As Mr. Campbell says, that was all gone
- 24 into in Panel 8.
- Now, if you want to ask him what the

1 effect of that latest decision has on their planning, 2 that is a question you can ask them, or ask them about. 3 But I don't think you can question the decision itself. 4 MR. MATTSON: O. Just with respect to 5 the certainty involved then of predicting over the 6 course of the 12 to 24-year period, the reason in the 7 interrogatory, I take it, was that this decision until closer to the date of retirement shouldn't be made 8 9 because it's too difficult to predict with any 10 certainty the costs involved, the probability of success or even the need of it; is that fair, Mr. 11 12 Shalaby? 13 MR. SHALABY: A. That was the view taken in 1989 Demand/Supply Plan 14 15 Q. And what is it that's changed that 16 makes Hydro now feel more confident in its forecasting 17 or its estimate of the service life to rely on the 18 extension for planning purposes? 19 I think that is exactly the issue that Panel 8 addressed at length. I don't have much to 20 add to the evidence given by Panel 8. 21 O. We have reviewed Panel 8 evidence, 22 23 and I won't get into it, but if I take it that that answer -- if we didn't have answer to that specifically 24

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questions, I take it there is nothing more to add then.

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1	A. I assure you that it is answered
2	several times during Panel 8 discussion, and in direct
3	evidence as well associated with Panel 8, and in
4	interrogatories.
5	Q. I am not sure but I believe these
6	questions now are directed to Ms. Howes or Dr.
7	Tennyson. And I believe it's the evidence at this
8	hearing that Hydro acknowledge the importance of
9	addressing past grievances; correct?
10	THE CHAIRMAN: What sort of past
11	grievances are you referring to?
12	MR. MATTSON: Q. Specifically with
13	respect to hydraulic issues.
14	DR. TENNYSON: A. I am not quite sure
15	what you are referring to. If it was with respect to
16	our relationships with First Nations, then any such
17	discussion of grievances would have occurred on Panel 6
18	and on Panel 7, if that's what you are referring to.
19	[2:52 p.m.]
20	Q. Yes, that is what I am referring to.
21	And I have the evidence on that. If Hydro doesn't get
22	the approvals requested from this Board, Dr. Tennyson,
23	will it remain to resolving those past grievances?
24	Will it remain committed to that?
25	A. We have entered into relationships

- with various First Nations and treaty organizations,

  and they are to do with specific projects that we are

  proceeding with at the present time. In terms of the

  branch in the Corporation is the Aboriginal Northern

  Affairs branch, and they are also actively negotiating

  right now processes with individual First Nations to
- Q. And, Dr. Tennyson, I believe it is

  also in evidence that communities have asked Ontario

  Hydro to resolve grievances from Hydro's past

  activities before proceeding with the developments of

  the plan. And given Hydro's plans, is that possible or

  is that something that can't be done?

deal with past grievances.

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A. Once again, you would have to be more specific. Certainly, in terms of my work, that is not the case. We are dealing in parallel with ongoing studies as well as trying to deal with past grievances and other outstanding issues. You can appreciate that not all issues are project-specific.

THE CHAIRMAN: On Panel 6, Mr. Mattson,
this whole business of the timing of resolving past
grievances and its relationship to projects was
discussed, and I think it was Ms. Quinn, it is my
recollection, went into this whole issue in
considerable length. And I'm sure you would be able to

find it in the Panel 6 evidence.

2 MR. MATTSON: Yes, Mr. Chairman. I have the transcript references where the evidence I am 3 putting to this panel are. But I am not asking 4 questions -- I take it the evidence has already come in 5 at those panels. I am asking with respect to the plan 6 7 if, in fact, Hydro was asked to resolve those grievances first before going ahead with the plan, I 8 was wondering if that is possible given the 9 10 Demand/Supply Plan options or are there constraints in 11 the planning that don't make that possible? 12 THE CHAIRMAN: I think Ms. Ouinn was 13 asked that question and answered it and gave Hydro's 14 position with respect to that. I don't know what more 15 you can add to that. 16 And again I say, perhaps it is 17 unnecessary, you don't necessarily have to agree with 18 what Ms. Quinn said. But what she said represented 19 Hydro's position on it. 20 MR. MATTSON: Q. I would like to ask a 21 number of questions with respect to your hydraulic cost 22 assessments that came out of the Panel 6 evidence; page 23 21 of the exhibit. You see an excerpt from the 24 original hydraulic plan, Mr. Snelson, Cost Data and 25 Evaluations.

1	MR. SNELSON: A. Yes.
2	Q. And if you look under the
3	cost/benefit ratio, do you see that column? Second
4	last column.
5	A. Yes.
6	Q. For 8 of the 12 projects in the
7	original hydraulic plan, Ontario Hydro estimated cost
8	benefit ratios of greater than one, indicating that
9	they are not cost-effective, correct?
10	A. Yes.
11	Q. If you turn to page 22 of the
12	exhibit, figure 3, Cost and Data Evaluations, Update of
13	Figure 10 and the Hydraulic Plan Report. And you will
14 .	note down in the bottom left-hand corner dated
15	November, 1991. Do you see that?
16	A. Yes.
17	Q. You will note that the cost/benefit
18	ratio column again, as a result of, and I believe it
19	was the 10 per cent preference premium was added and
20	the avoided cost were changed, that as a result 6 of 12
21	in Hydro's estimation came below the ratio of 1 and 6
22	above, correct?
23	A. Yes.
24	Q. Now, the avoided costs Hydro used to
25	calculate the ratios in November 1991 were higher than

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the avoided costs Hydro is now using, correct?

MR. SHALABY: A. I think I gave evidence

to that in direct testimony. I refer you to page 75

and 76 of our Exhibit 682. In particular, page 76 has

further update to your page 22. So that, in effect, is

the third snapshot. What you have shown us is here is

the original hydraulic plan and you show us information

from Exhibit 359 which was available at the time of

10 Q. Yes.

Panel 6 evidence.

A. Our page 76 is the most recent cost/benefit ratio to the hydraulic programs. And those ratios show that now four projects have a cost/benefit ratio above one and eight have cost/benefit ratio below one.

Q. Yes, I see that. And can you indicate why the ratios improved?

A. The ratios improved because the long-term avoided costs are higher. I explained that in direct evidence. And hydraulic projects use a 90-year evaluation period and they are heavily influenced by the tail end of the avoided cost estimates. And the higher those values, the more favourable hydraulic projects look.

Q. Mr. Shalaby, how would NUG

1 availability be influenced by using the enhanced 2 avoided costs used in the update of the hydraulic cost 3 benefit assessments? 4 Α. The NUG availability? 5 0. Yes. 6 Α. Do you mean by that the potential for 7 NUGs? 8 0. Yes. 9 Long-term NUG projects that would be 10 evaluated over a long period of time would improve in 11 their economics. 12 If you turn to page 24 of the 13 exhibit, under the levelized avoided cost column. Do 14 you have that, Mr. Shalaby? 15 Α. Yes. Q. Is it fair to say that these 16 17 levelized avoided costs might be attractive to the 18 private sector? 19 A. I think levelized cost is not 20 something that would be either attractive or 21 unattractive to a developer. They are simply the costs 22 of producing electricity spread over the life of the 23 facility. So it really depends on what they are getting for their electricity. This is what it will 24 cost to produce it. If they get paid more than that, 25

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- then it is an attractive proposition. 1
- Q. Is it fair, Mr. Shalaby, to say that 2
- if Hydro put out a request for proposals for NUGs 3
- corresponding to the power to be met by the hydraulic 4
- plan, that there would be bids below Hydro's avoided 5
- 6 costs?
- 7 The bids also have to meet the same
- conditions that the operation of these hydraulic plans 8
- 9 would meet, particularly the idea of being dispatched.
- 10 Some of these facilities, as you see on this table and
- elsewhere in the hydraulic plan, are low in capacity 11
- 12 factor. Some would be 10, 15 per cent capacity factor.
- 13 If there is a non-utility generation that
- 14 is prepared to operate at 10 or 15 per cent capacity
- factor and be under the full dispatch of our control 16 centre, then these payments are certainly available to
- them, or something close to that. 17
- 18 Q. Would Ontario Hydro commit itself to
- 19 such a request for approvals, prior to approvals?
- 20 Sorry.

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- 21 Commit itself to what in specific? Α.
- 22 Request for proposals prior to Q.
- 23 approval.
- 24 A. Approval of what?
- 25 Okay. I'll ask that again. Would

1 Ontario Hydro commit itself to such a request for 2 proposals prior to commitment to the project, the 3 hydraulic projects. 4 A. I cannot give that kind of 5 commitment, no. We have had requests for proposals 6 from non-utility generation over the last several 7 years, and we have had a large number of projects 8 submitted to us. 9 0. If you are going to commit to the 10 hydraulic plan, wouldn't it be wise to first see if the private sector could do it cheaper first? 11 12 Many of those sites are Ontario Hydro 13 owned and operating sites that are being extended. 14 Mattagami, for example, falls under that category. 15 Niagara falls under that category. And the private sector participates in the redevelopment and 16 construction of these projects. 17 18 Q. Is it possible that they could buy the sites from Ontario Hydro and Ontario Hydro would be 19 20 better off? Is that possible, Mr. Shalaby? That is not a current policy of 21 Α. 22 Ontario Hydro. But is it possible that Ontario Hydro 23 24 could be better off? I think the perspective we look at is 25

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not whether Ontario Hydro would be better off. We look 1 at the perspective of our customers, whether our 2 3 customers are going to be better off. MR. SNELSON: A. The issue of selling 4 existing Ontario Hydro hydraulic generating stations 5 6 was discussed on Panel 6 as well as the options that is considered under the SHARP program. 7 O. I understand, Mr. Snelson. We are 8 9 discussing proposed sites, not existing ones. 10 A. I think your question to Mr. Shalaby 11 was with regard to existing sites. Q. Sites Ontario Hydro owns where there 12 may not be facilities at the moment, correct? 13 14 Α. The sites that Mr. Shalaby referred 15 to is the Mattagami and Niagara are sites where Ontario 16 Hydro owns and operates existing hydraulic generating 17 centres. 18 Q. And Mattagami is a redevelopment, 19 correct, Mr. Shalaby? 20 MR. SHALABY: A. Redevelopment for 21 hydraulic sites, yes. 22 Q. And Niagara is a new site, correct? 23 Niagara is a redevelopment of the Α. 24 site, as well, or an extension to the site. 25 Q. Thank you. And it is a new facility

1 at Niagara, as well, correct? 2 Α. It is an addition to an existing 3 complex, yes. 4 Q. Now, Mr. Shalaby, if you would look 5 at page 24 down the column at Ragged Chute, (redevelopment), no, Renison, (new). We will go to a 6 7 new site. 8 A. Yes, I see it. 9 It is not owned, correct? 0. 10 Α. Not to my knowledge, but I cannot be 11 certain of that. 12 Q. Now, could Ontario Hydro, I believe 13 the site is owned by Ontario Hydro, correct, but there 14 is no facility. 15 MR. SNELSON: A. I don't think any of us 16 here are familiar with the details of all the proposed 17 and possible Hydro electric sites. The people who are most familiar with that were on Panel 6. 18 THE CHAIRMAN: Well, let's assume for the 19 20 purpose of the question, if Mr. Mattson wants to do it that way, that Ontario Hydro is the owner of the site. 21 22 Is that the way you want it, Mr. Mattson? 23 [3:05 p.m.] MR. MATTSON: Yes, Mr. Chairman, I was 24

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going to suggest that.

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O. If we suggest that Ontario Hydro owns 1 the site, would it be Ontario Hydro's interest to sell 2 the site and buy the power and Ontario Hydro would be 3 able to make a profit; correct? 4 MR. SHALABY: A. Not necessarily, no. 5 Could make a profit? 6 0. 7 DR. LONG: A. Ontario Hydro does not make a profit. I am not sure what you mean by that 8 9 term. O. This would be cost-effective to 10 Ontario Hydro? 11 12 MR. SHALABY: A. To have it developed by 13 non-utility industry, is that what you mean? 14 Q. Yes, to sell the site and to buy the 15 power. 16 MR. SNELSON: A. I think you have to look into some of the specific issues. For instance, 17 18 any generating plant that is on a river which currently 19 has existing generating facilities, then it will be 20 important that whoever owns and operates the new 21 facility, that it be done so, that it be operated in 22 coordination with the existing facilities on the river 23 so as to get the best possible use out of that river. 24 I think we have an example that will 25 perhaps give us some guidance as to just how successful

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1 we are in the regard of having large hydroelectric 2 developments developed by private generators on rivers 3 that currently have existing facilities with water control by Ontario Hydro. In the experiences with 4 respect to the Grand Rapids site which is a site which 5 6 has been released to the private sector by the Ministry 7 of Natural Resources, it is downstream of the Mattagami plants, and we will be very interested to see whether 8 9 it is possible to come to an arrangement with that 10 developer for developing a plant and operating it in 11 such a way that it will coordinate with the existing 12 facilities and the proposed extensions on that river.

Q. Thank you, Mr. Snelson.

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If you turn to page 25 of the Exhibit. I am looking at Appendix 1 to that, that's the cover letter, and I am looking at Appendix 1 which is page 26 of the exhibit, entitled: Levelized Unit Energy Cost, the LUEC Comparison. A couple of quick points of clarification. It shows a recent Ontario Hydro estimate of LUEC for the Manitoba Purchase and it is estimated incremental LUEC is 4.5 cents a kilowatthour is still Ontario Hydro's estimate, Mr. Shalaby?

A. We gave the most recent estimates in the transcript undertaking, which is Exhibit 442.7, and I believe that if you go to Appendix C of that

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transcript undertaking, then the latest estimate of the 1 2 total levelized unit energy cost in 1991 cents per kilowatthour for the Manitoba Purchase is 4.7 cents a 3 kilowatthour, assuming the supplemental energy is 4 5 taken. 0. Is that system expansion or direct 6 7 and allocated? That will be calculated on the basis 8 Α. of additional costs which is the system expansion 9 10 basis. Q. Thank you. And would the direct and 11 12 allocated costs be higher or lower, Mr. Snelson? 13 A. We don't normally separately estimate 14 direct and allocated costs for our projects. I don't 15 know of any substantial use of common facilities that 16 might cause a substantial difference in this case. Q. Mr. Snelson or Mr. Shalaby, with 17 18 respect to Darlington GS and the 4.5 cents per 19 kilowatthour, what was the assumed capacity factor? 20 MR. SHALABY: A. We don't have specific 21 knowledge of what was used in this particular document, 22 but one can assume that it's the current projection at 23 the time of the lifetime capacity factor of the 24 station, somewhere in the mid-70s or high 70s perhaps, 25 or perhaps even 80 per cent.

1	Q. At the time?
2	A. That was a typical assumption used in
3	estimating lifetime capacity familiar for nuclear at
4	time, yes.
5	Q. But the 80 per cent capacity factor
6	is no longer being used with respect to Darlington;
7	correct?
8	A. There has been evidence in Panel 9 of
9	the exact expectations for Darlington, yes.
LO	Q. Now, just back to Manitoba for a
11	moment, page 27 of the exhibit. It's an interrogatory
L2	from Energy Probe, ID no 10.2.27.
L3	THE REGISTRAR: That's .43.
L 4	<u>EXHIBIT NO. 683.43</u> : Interrogatory No. 10.2.27.
L5	MR. MATTSON: Thank you.
L6	Q. The question is:
L7	Please provide a comprehensive
18	assessment of the value of a NUG in the
L9	West system with and without both of the
20	Manitoba Purchase and the Little Jackfish
21	development.
22	And the interrogatory indicates that
23	Hydro has not evaluated the avoided costs for NUG on
24	the West system in the absence of the Manitoba Purchase
25	and Little Jackfish.

Is that answer still correct, Mr. 1 2 Snelson? MR. SNELSON: A. Yes, I believe so. The 3 difference between avoided cost for NUGs in different 4 5 areas of the province would require identifying the transmission effects, and I believe that we have given 6 evidence that we haven't, at this point in time, tried 7 to allocate the transmission costs differently to 8 9 different NUGs in different areas of the province. 10 Thank you. Now, I don't believe you 11 have to turn to the transcript, but it's transcript 12 122, page 21440, the issue was raised at that panel. I 13 will give you time to look it up, if you like. 14 MR. B. CAMPBELL: We are going to get a 15 copy of the transcript. I don't believe we have it out 16 here. 17 MR. MATTSON: Q. You may not need it.

The issue was raised at Panel 9 that the generator shaft cracking at Darlington could have happened at a fossil station, and Mr. Daly indicated at that place in evidence that because generators at nuclear plants were the same at fossil and nuclear plants, the Darlington experience with cracking could occur in fossil units.

Is that fair?

MR. SNELSON: A. I believe he said that

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1 and I have no reason to doubt him. 2 All right. Now as a planner the 3 incident of a cracked generator shaft at a nuclear plant is much more financially severe than at a fossil 4 5 plant; correct? 6 Α. To some degree. 7 Mr. Snelson, this is because of the higher capital cost of nuclear plants, with the base 8 load function of the nuclear plants that when a problem 9 10 with equipment like a generator occurs, the financial implications are much more severe for Hydro? 11 No. It's because of the lower fuel 12 Α. 13 cost of the nuclear plant and you fail to get the fuel savings during the period when the plant is 14 15 out-of-service for any reason. Thank you. Now, I am moving to the 16 area of some planning principles and I will be going 17 through some interrogatories. 18 Would someone on the panel, would you 19 20 agree that higher electricity prices reduce the need for load displacement NUG subsidies? 21 MR. SHALABY: A. They make the load 22 23 displacement projects more attractive to the proponent. Q. Do you agree that the forecast power 24 surpluses reduce the need for such LD NUG subsidies? 25

They have had an impact on lowering 1 Α. the avoided costs in the early 90s and late 90s. 2 And, Mr. Shalaby, from a planning 3 point of view, if you are trying to achieve least cost 4 for your customers, why subsidize LD NUG during times 5 of power surpluses? 6 7 You will notice I am not accepting your word subsidized. 8 9 0. All right. 10 I think it is bringing the project 11 within total customer cost, or the project will become 12 a good deal for our customer comparable to supply 13 facilities or options from elsewhere. 14 Yes. In fact, with respect to LD NUG 15 programs, they don't go through the total customer cost 16 test, do they? That's not the test that justifies 17 their cost effectiveness? 18 Something that is in the similar 19 principle is gone through. 20 Now, if you turn to page 32 of the 21 exhibit, it's an interrogatory from Energy Probe, ID 22 No. 11.2.37. 23 THE REGISTRAR: .44. 24 --- EXHIBIT NO. 683.44: Interrogatory No. 11.2.37. 25 MR. MATTSON: Q. And the question was:

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1	is Hydro forecasting that there will
2	be any times in the future when Hydro
3	will be curtailing nuclear hydraulic
4	plants while thermal NUGs will be
5	delivering power?
6	You indicated in the answer:
7	Since most of the thermal NUGs are
8	contracted as base load generators with
9	little or no curtailment rights, it would
10	be expected that they would be delivering
11	power during off-peak weekday hours and
12	weekend hours when possible. Nuclear
13	curtailment is required to manage the
14	unutilized base load.
15	I believe is what UBG stands for.
16	MR. SNELSON: A. I believe Mr. Vyrostko
17	did testify on Panel 5 that some of the NUG contracts
18	have provisions for curtailment for a certain number of
19	hours, which allows us not to purchase that power
20	during periods of unutilized base load generation when
21	we have surplus nuclear and hydraulic.
22	Q. All right, Mr. Snelson. But would it
23	be fair to say that generally Hydro has considered NUGs
24	to be a base load option?
25	A. We did discuss that in Panel 5 and

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1	most of the NUGs that we have under contract, and we
2	expect most cogeneration NUGs to be scheduled primarily
3	to meet the steam demand rather than to meet the
4	electricity demand.
5	When we come to major supply non-utility
6	generation we are working towards dispatchable
7	generation that would be available, either base load or
8	intermediate load or some combination, maybe even
9	peaking.
LO	Q. All right. And, Mr. Snelson, the
11	contracting and pricing system for NUGs, existing NUGs,
12	the take-or-pay system, made Hydro effectively see NUGs
13	as having zero operating costs; correct?
14	A. The current system requires us to buy
15	the power when it's available at the price subject to
1.6	the terms of the contract and the contracts have
17	limited periods for us to turn that down.
18	Q. Mr. Snelson, the NUGs don't have zero
19	operating costs; do they?
20	A. That is correct.
21	Q. And you would agree that there will
22	be some economic penalties caused by Hydro's practices
23	resulting in plants being dispatched out of order in

A. As I have indicated, the cogeneration

terms of least fuel costs; correct?

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1 plants are generally best dispatched to match the steam 2 demand and the current system allows that to happen. 3 Q. All right. If you turn to page 33 of 4 the exhibit, and this is an interrogatory from Energy Probe, ID No. 11.2.35 5 6 THE REGISTRAR: .45. 7 ---EXHIBIT NO. 683.45: Interrogatory No. 11.2.35. 8 MR. MATTSON: Thank you. 9 O. I am looking, Mr. Snelson, at the 10 UBG, in the response, the graph. Do you have that? 11 MR. SNELSON: A. Yes. 12 Q. And the interrogatory indicates that 13 Hydro is forecasting large amounts of unutilized base load generation in the next five years; correct? 14 15 A. I see numbers ranging from 100 hours -- sorry, 200 hours to 1,800 hours. 16 O. And would you agree, Mr. Snelson, 17 that the dollar value of losses due to running NUG 18 plants out of order, given the forecast, such a large 19 20 number of you UBG will be substantial? 21 Α. That depends on the amount of energy associated with it, and I see the amounts that are 22 there, and other opportunities to use that energy such 23 as to sell it over the interconnected systems. 24 25 Q. Can you estimate the losses?

Τ		A. NO, NOT Officially.
2		Q. Now, if you would go to transcript
3	No. 149, page	26300. It's actually at the bottom of
4	page 26299, 1	ine 22, beginning, the question was:
5		"The first question that you spoke of
6		was revisiting an approach of
7		distributing generation in smaller
8		amounts without therefore requiring any
9		substantial additions to the bulk
10		transmission system. What did you find
11		when you looked at that set of
12		circumstances?"
13		And in the response, if you look at line
14	15:	
15		"We find that we lose the benefits of
16		a high voltage transmission system and as
17		a consequence to this that we would need
18		more generation to maintain a comparable
19		level of reliability compared to the case
20		of centralized stations interconnected by
21		a strong transmission system."
22		My question is, in Hydro's mind what is
23	the reliabili	ty penalty of decentralization?
24		A. It's something that varies over time,
25	you can't put	a number on it. But the principle is

1	that a lot of small generating systems in the growth of
2	interconnected power systems have been joined together
3	with transmission, and the reliability benefit is that
4	it allows a pooling of reserve generation amongst all
5	the systems that are connected together. And if the
6	transmission between each system and its neighbours is
7	not sufficient to enable surplus reserve in one area to
8	be used as reserve in another area, then the effect is
9	that each area has to go back to providing its own
10	generation reserves and in total more reserve will be
11	required.
12	Q. So the reliability penalty is a
13	function of a higher reserve margin?
14	A. I think that the higher reserve
15	margin is what you have to provide to maintain the same
16	level of reliability.
17	Q. All right. Mr. Snelson, in the
18	dispersed generation scenario can you estimate what the
19	line loss savings are? And if you can sorry.
20	MR. DALZIEL: A. I can't estimate or
21	quantify for you what the line losses would be. But in
22	general, in looking at this type of approach the line
23	losses were higher in the earlier period until you
24	reach that point in time where you have a more truly
25	distributed system and then the line losses do become

1 lower. 2 [3:28 p.m.] Q. Mr. Dalziel, would you concede that 3 the line loss savings would be offsetting with the 4 reliability penalty for higher reserve margin? 5 I wouldn't be able to estimate that. 6 Α. 7 0. In principle? I don't know if they are on the same 8 9 scale, or not. What comes to mind is there are other benefits as opposed to just the benefits of lower 10 reserve margins that would also be lost in this case. 11 12 Such as? 13 A. Well, for example, the benefit of 14 being able to use generation in one part of the 15 province to supply load in a geographically different 16 part of the province perhaps due to generation problems in other parts of the system, so that you can generate 17 18 economically electricity in one area and supply it to 19 another area of the province. 20 Thank you. Now, I have a number of 21 questions arising out of Ontario Hydro's financial

25 THE CHAIRMAN: 11.2.41.

1988 Business Plan.

22

23

24

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position. If you turn to page 35 of the exhibit. And

this is Exhibit 11.2.41, and it is an excerpt of the

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1		REGISTRAR: .46.
2	EXHIBIT NO	. 683.46: Interrogatory No. 11.2.41.
3		MR. MATTSON: Q. And, Dr. Long, I
4	believe these	questions are directed to you. We see in
5	the graph	
6		I apologize, Mr. Chairman.
7		Before I take you to the graph, Dr. Long,
8	do you have to	ranscript 149? Page 26386.
9		DR. LONG: A. 26386?
10		Q. Yes, at line 14. In direct you
11	indicated that	t:
12		"For each of the plans the borrowing
13		level for about the next 15 years is in
14		the range of \$2 to \$4 billion, and then
15		it moves up to around \$5 billion towards
16		the end of the period and this is due to
17		the funding requirements associated with
18		major supply."
19		Do you see that?
20		A. Yes, I have that.
21		Q. All right. Now, if you turn to page
22	35 of the exh	ibit.
23		A. Yes.
24		Q. Under figure 5.9, Borrowing.
25		A. Yes, I have that.

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1	Q. You see that as recently as the 1988
2	Business Plan, which this is a graph from, Hydro's plan
3	for net borrowing indicated that in the current period,
4	1992 through 1994, net borrowing was forecast to be a
5	few hundred million dollars per year in 1988 dollars;
6	correct? Or '87 dollars.
7	A. Around which year, around 1992?
8	Q. 1992, '93, '94.
9	A. That's correct.
10	Q. And the most recent forecast, and we
11	have that at page 39 of the exhibit, titled Key
12	Results, Table 1.
13	A. That's correct.
14	Q. If you look down the column, under
15	net borrowing for 1992, the updated outlook is \$2.6
16	billion; correct?
17	A. That's correct.
18	Q. And would you agree, Dr. Long, that
19	Hydro's recent borrowing plans have been gross
20	underestimates relative to the current forecast for
21	near-term borrowing?
22	A. Well, a couple of observations I
23	would make. The net borrowings shown on page 35 are in
24	1987 dollars. The numbers shown on 39 are in escalated
25	dollars, 1992 dollars.

1	Q. Yes.
2	A. That is five years of escalation in
3	there.
4	Q. Yes.
5	A. If you took the numbers from page 35,
6	that would certainly increase them somewhat. But there
7	is no doubt that our expected borrowings in 1992 now
8	are higher than what they were back in 1987.
9	Q. All right. And, Dr. Long, again in
10	transcript 149, page 26384.
11	THE CHAIRMAN: I'm sorry, page 39, what
12	is the source of page 39?
13	MR. MATTSON: I'm sorry, Mr. Chairman.
14	THE CHAIRMAN: There is a date at the
15	bottom right-hand of the page that I can't read.
16	MR. MATTSON: 1992, May 25th.
17	THE CHAIRMAN: So that is current. And
18	what is the document it is taken from?
19	DR. LONG: That is taken from Hydro's
20	Update of the current OEB hearing.
21	THE CHAIRMAN: It is an OEB update, is
22	it?
23	DR. LONG: Yes.
24	THE CHAIRMAN: Is that what it is?
25	DR. LONG: Yes.

1	MR. MATTSON: Thank you, Dr. Long.
2	MR. B. CAMPBELL: We don't discriminate
3	on updates.
4	THE CHAIRMAN: And that was the figure
5	you were looking at that you said was the net
6	borrowing? That is the figure we are trying to assess?
7	MR. MATTSON: Yes, Mr. Chairman, net
8	borrowing under 1992, \$2.6 billion.
9	THE CHAIRMAN: Yes. Are you suggesting
10	that that is inconsistent with evidence he has given up
11	to now?
12	MR. MATTSON: No, Mr. Chairman. Just
13	very much larger than the forecast that we had earlier
14	in the evidence from the '88 Business Plan.
15	THE CHAIRMAN: Well, I thought the
16	forecast that you took him to in the transcript was for
17	some period of time later; is that not right?
18	DR. LONG: It was for, I guess, the full
19	period of our current projection. But Mr. Mattson
20	hasn't asked me any questions on that yet.
21	MR. MATTSON: That's correct.
22	THE CHAIRMAN: But what is the 2.6 being
23	compared with in this question is what I am trying to
24	get at.
25	DR. LONG: On page 35 of Exhibit 711 is

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- 1 the excerpt from the 1988 Business Plan. And it is the 2 figure on the graph labelled figure 5.9. 3 THE CHAIRMAN: Oh, I see. That is the 4 net borrowing figure; is that right? 5 DR. LONG: I believe. That is what I was 6 referring my answer to. 7 MR. MATTSON: That is correct, Dr. Long. 8 Thank you. 9 THE CHAIRMAN: Okay. 10 MR. MATTSON: Q. And, Dr. Long, then, if 11 you would turn to page 26386 again. 12 DR. LONG: A. Yes. 13 0. In the earlier reference I made in 14 the transcript. 15 A. Yes. And I read between lines 14 and 18. 16 17 What security do we have in the correctness of that 18 statement in light of the updated plan? 19 What security do we have? 20 0. In the correctness.
- MR. B. CAMPBELL: Well, just a minute,

  Mr. Chairman. As I read the excerpt from the

  transcript, again we are not even comparing the same

  number. The transcript refers to total borrowings, not

  net borrowings, which is a substantially different

1	number for reasons that I won't go into.
2	MR. MATTSON: That's correct, Mr.
3	Chairman. And all I am asking for, in light of the
4	which I put to you the overestimate in the earlier
5	comparison what
6	MR. B. CAMPBELL: But, Mr. Chairman, the
7	overestimate, the comparison that has been done is with
8	respect to net borrowings, not total borrowings.
9	MR. MATTSON: I understand.
10	MR. B. CAMPBELL: It is a substantially
11	different matter.
12	THE CHAIRMAN: Well, total borrowings in
13	1989 were projected at what? It is hard to read this
14	graph. Somewhere around 2-1/2 billion, would that be
15	right?
16	MR. MATTSON: 200 million?
17	THE CHAIRMAN: No, no. Total borrowing.
18	MR. MATTSON: Oh, sorry.
19	DR. LONG: Gross borrowings was about 2.5
20	billion as per page 35 of Exhibit 711.
21	THE CHAIRMAN: And what is the total on
22	page 39?
23	DR. LONG: There is no 1989 figure there.
24	THE CHAIRMAN: I'm sorry, I misunderstood
25	you. We are looking at page 35; right?

1	DR. LONG: That is correct.
2	THE CHAIRMAN: And that is a prediction
3	made, then, for borrowing a number of years going out
4	to, it looks like 1997. It is hard for me to read.
5	What does it say for the total borrowings for 1992?
6	DR. LONG: Somewhere between \$2 and
7	\$2-1/2 billion, again expressed in 1987 dollars.
8	THE CHAIRMAN: Right. And what is the
9	corresponding figure on page 39, if there is one?
10	DR. LONG: It would be the 4.8 billion
11	shown under updated outlook for 1992.
12	THE CHAIRMAN: All right. Okay.
13	MR. MATTSON: Thank you.
14	Q. And again, Dr. Long, there has been
15	nearly a doubling in that estimate; correct?
16	THE CHAIRMAN: Well, you haven't taken
17	into account the escalation of the dollars.
18	DR. LONG: That is one factor. And
19	another factor, and I don't have the details at my
20	fingertips, is, if you go back to page 35, the
21	refinancing portion is something that varies quite a
22	bit because part of that is not mandatory refinancing.
23	Some of it is taking opportunities to refinance to save
24	costs. And that can vary from year to year.
25	MR. MATTSON: Q. And, Dr. Long, total

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borrowings are above where they used to be, what we saw 1 established on page 35; correct? What you forecast in 2 3 1988. DR. LONG: A. When you say total Δ borrowings, gross borrowings now? Total borrowings? 5 6 Okay. Yes. 7 0. 8 Α. Using the term total borrowing, then, 9 yes. 10 Q. And, Dr. Long, what impact, if any, 11 would that have on your evidence at lines 14 to 18 of 12 transcript that I referred you to at page 26386? 1.3 What I said in my direct testimony, 14 that transcript references our current long-term 15 outlook, and that outlook still stands. I have also 16 said in my testimony that long-term financial 17 projections are subject to uncertainty. 18 Q. And that uncertainty is demonstrated 19 in the earlier example of your total borrowings and 20 your net borrowings that we referred you to. 21 Circumstances change, plans change, 22 economic outlook changes. There are a whole manner of 23 things that can contribute to a change in borrowing. 24 Q. Thank you. And if you turn to page

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26384 of your evidence.

25

1	A. I have that.
2	THE CHAIRMAN: I'm sorry, what is the
3	number again?
4	MR. MATTSON: 26384, just one page prior.
5	THE CHAIRMAN: Thank you.
6	MR. MATTSON: Q. And I am looking at
7	line 16.
8	"The long-term rate outlook that I
9	have currently shown you, being
10	consistent with the Update, is
11	significantly higher than that that was
12	projected at the time of the original
13	Demand/Supply Plan.
14	Is that correct?
15	DR. LONG: A. That is what I said.
16	Q. Now, my question is whether
17	consistently higher is an adequate description?
18	Wouldn't in the opposite direction be more appropriate?
19	In other words, if we look at page 44 of the exhibit.
20	A. I have that.
21	Q. And at page 43 is the cover for that.
22	It is an Ontario Energy Board interrogatory.
23	A. Yes.
24	Q. From the Board itself. And your
25	answer is a graph which shows real electricity price.

1	Do you see tha	t, Dr. Long?
2		A. Yes.
3		Q. And do you see the 1989 plan?
4		A. That is the 1989 Business Plan, yes.
5		Q. Yes. And that is consistent with the
6	original Deman	d/Supply Plan?
7		A. I'm not sure that it was perfectly
8	consistent, bu	t pretty consistent, yes.
9		Q. All right.
10		A. It was prepared a little after the
11	completion of	the Demand/Supply Plan.
12		Q. And you would agree that in that plan
13	your prices as	e dropping consistently, correct, to the
14	year 1999?	~
15		A. The general trend is downwards, yes.
16	[3:43 p.m.]	
17		Q. If you look at 1993 rate proposal
18		A. Yes.
19		Q the trend is now upwards?
20		A. Yes. Significantly higher, as I said
21	in my evidence	2.
22		Q. Consistently. And would you say
23	significantly	higher as well?
24		A. I said significantly higher.
25		THE CHAIRMAN: He said significantly, he

1 didn't say consistently. 2 MR. MATTSON: Sorry. 3 Q. Now, Dr. Long, if you turn another 4 page forward in your transcript evidence to page 26385. 5 Do you have that? 6 DR. LONG: A. Yes, I have that. 7 Q. At the bottom of the page, and your 8 answer in chief: 9 "As I said, the effect of these 10 factors is largely independent of Hydro's 11 longer term plans to balance supply and 12 demand, meaning that this outlook for 13 higher prices would be an underlying 14 feature of any alternative for dealing 15 with future supply and demand." 16 A. I see that. 17 Has Ontario Hydro considered any 0. 18 options for reducing rates apart from actions such as borrowing to meet operating costs? 19 20 Α. That wouldn't provide a solution 21 to -- that certainly would not provide lower rates 22 except in the very short-term. Q. All right. Are you looking at any 23 concrete or demonstrably beneficial measures that you 24 might be able to take in the long-term? 25

1	A. I think the control of costs and the
2	control of rates and balancing rates with financial
3	soundness is something that the Corporation and the
4	board of directors is constantly concerned with.
5	Q. Would you agree, Dr. Long, that - I am
6	not sure if you are familiar with this - but would you
7	agree that the contracts between Nordic Power and the
8	Windsor Utility that we have heard about would have
9	provided cheaper power to Windsor than Hydro can
10	provide?
11	A. Could you actually repeat the
12	question.
13	Q. Yes. The proposed contract between
14	Nordic Power and the City of Windsor Utility
15	Commission, that this would have provided cheaper power
16	to Windsor than Hydro can provide the City of Windsor?
17	A. I am not sufficiently familiar with
1.8	it to be able to confirm or deny that.
19	Q. Mr. Snelson?
20	THE CHAIRMAN: It's bit off-track from
21	the financial considerations that we have been
22	discussing for the last 10 minutes. Perhaps we should
23	again take the break and you can think about that
24	question.

Thank you, Mr. Chairman.

MR. MATTSON:

25

1	THE REGISTRAR: Please come to order.
2	This hearing will recess for 15 minutes.
3	Recess at 3:45 p.m.
4	On resuming at 4:03 p.m.
5	THE REGISTRAR: Please come to order.
6	This hearing is again in session. Please be seated.
7	THE CHAIRMAN: Mr. Mattson?
8	MR. MATTSON: Thank you, Mr. Chairman.
9	Q. I will just finish off this point. I
.0	was looking, Dr. Long, or asking you about concrete
.1	ways or measures that we could take to reduce rates or
.2	reduce the borrowing requirements, and I put to you the
.3	City of Windsor and Nordic Power deal, and I wondered
. 4	if that could be a possible alternative to be used by
.5	Ontario Hydro to reduce rate impacts to customers even
.6	if those customers are buying power from someone other
.7	than Ontario Hydro?
.8	DR. LONG: A. I think the answer I gave
.9	just before the break still stands. I really don't
20	know enough about it to be able to comment.
21	Q. Mr. Snelson?
22	MR. SNELSON: A. Yes?
23	Q. Can you answer that?
24	A. I can't answer specifically about the
25	rate impacts. I believe that I did indicate that

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1 Ontario Hydro was reconsidering its policy with respect to the municipal utilities' right of first refusal for 2 non-utility generation in its service territory, and 3 that Windsor was the example which triggered this 4 5 decision to reconsider that policy. Q. All right. 6 THE CHAIRMAN: The present policy being 7 that you don't let them do it; is that right? 8 MR. SNELSON: The policy that was 9 10 discussed on Panel 5 by Mr. Vyrostko was that we do 11 allow municipal utilities to have the right of first 12 refusal for non-utility generation in their own service 13 territory. The situation with Windsor was that I 14 15 believe it's two large non-utility generators that were 16 negotiating for the sale of power to Ontario Hydro, 17 that Windsor decided to take up those offers, and this 18 would have been a very large part of the load for the 19 Windsor area, and there was concern as to the sharing 20 of risks and benefits between the customers of the 21 Windsor utility and the customers of the other 22 municipal utilities province-wide. 23 THE CHAIRMAN: I see. 24 MR. MATTSON: Q. Mr. Snelson, is it fair 25 to say that the offer to the City of Windsor was at

1	rates below Or	ntario Hydro's rates; correct?
2		MR. SNELSON: A. I don't know that for
3	sure.	
Ą		Q. Are you aware if rates in Windsor
5	would have don	ne down if the deal had gone through?
6		A. No, I am not.
7		Q. If you could turn to page 47 of the
8	Exhibit, it's	an interrogatory from Energy Probe, No.
9	11.2.39.	
10	ŗ	THE REGISTRAR: That is .47.
11	EXHIBIT NO	. 683.47: Interrogatory No. 11.2.39.
12		MR. MATTSON: Q. Just briefly, the
13	question was:	
14		Could Hydro remain solvent without the
15		debt guarantee if customers gain the
16		right to purchase power from producers of
17		their choice?
18		And the answer was:
19		Hydro has not studied the scenario in
20		question, and is therefore not in a
21		position to respond.
22		Would that still be the case Mr. Snelson,
23	or Dr. Long?	
24		DR. LONG: A. I think that's something
25	that I should	answer. And yes, that's still the case,

we have not studied that.

Q

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2 MR. MATTSON: Thank you.

doesn't inconvenience them.

[Laughter]

Now, Mr. Chairman, because of the
elimination of a number of our questions we finished
our cross-examination. I had given some other counsel
for other intervenors indication that we would be the
full day. And I apologize for any inconvenience this
causes you by finishing so early, and I hope that that

THE CHAIRMAN: Anyone who finishes their cross-examination earlier than they thought is not going to get very much criticism from this source.

Thank you very much, Mr. Mattson.

MR. MATTSON: Thank you.

MS. SPOEL: Mr. Chairman, I think I am supposed to be next but I am not quite ready, given that I had been told I wouldn't have to cross-examine until tomorrow. The photocopier hasn't been working all day and we have had various technical problems, so if I could start first thing in the morning I would appreciate that.

THE CHAIRMAN: That will be fine. We will adjourn then until tomorrow morning at ten o'clock.

1	THE REGISTRAR: Please come to order.
2	This hearing will adjourn until ten o'clock tomorrow
3	morning.
4	Whereupon the hearing was adjourned at 4:10 p.m., to
5	be reconvened on Thursday, June 11, 1992, at 10:00 a.m.
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